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MANSFIELD
UNIVERSITY

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UNDERGRADUATE

CATALOG

1996-97

MANSFIELD UNIVERSITY

MANSFIELD UNIVERSITY OF PENNYSLVANIA
MANSFIELD, PA 16933
ADMISSIONS PHONE: 717-662-4243
FAX: 717-662-4121
E-MAIL: admissns@mnsfld.edu
WEB SITE: www.mnsfld.edu

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DIRECTIONS FOR CORRESPONDENCE

Academic Information, 662-4804
Dr. Joseph Moore, Provost
Vice-President for Academic Affairs
North Hall 508

Academic Records, 662-4202
Mary Jane Watkins
Coordinator of Academic Records
South Hall 112

Admissions, 662-4243
Mr. Brian Barden, Interim Director
Alumni Hall

Community Services/Continuing Education
662-4849
Mrs. Susan Sweet, Director
Doane Center 114

Financial Affairs, 662-4881
Mr. William Yost, Vice-President
for Administration & Finance
North Hall 529

Financial Aid, 662-4878
Mr. Christopher Vaughn, Director
Alumni Hall

Graduate Studies, 662-4806
Dr. Sandra Linck, Associate Provost
North Hall 509

Public Relations/Publications, 662-4846
Mr. Dennis R. Miller, Director
Doane Center 104

Residence Life, 662-4933
Mr. Michael Lemasters, Director
Pinecrest 120

Revenue/Financial Accounts, 662-4868
Mr. Curt Tofts, Controller
Alumni Hall

Student Affairs, 662-4930
Mr. Joseph Maresco, Vice-President
for Student Affairs
North Hall 516

Student Teaching, 662-4565
Mr. John Abplanalp, Director
External Learning Experiences
Retan Center 111C

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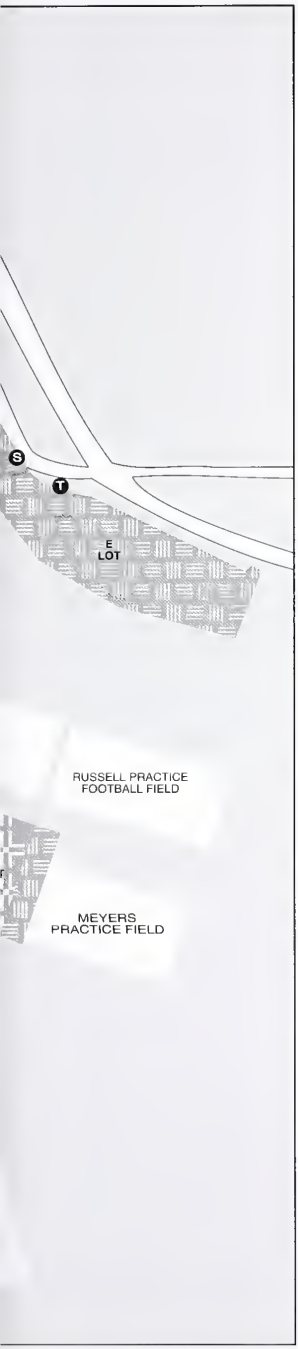
CARPENTER SHOP
BROOKS MAINTENANCE
RETAN CENTER
HOLDEN PL
BELKNAP HALL
WILSON ST
W LOT
S LOT
R LOT
ALLEN
FIELDHOUSE
K LOT
REC. CENTER & POLICE
J LOT
SULLIVAN ST
SUSAN ST
GRANT SCIENCE CENTER
M LOT
STRAUGHN AUDITORIUM
BUTLER CENTER AND STEADMAN THEATER
STADIUM
STADIUM DRIVE
HOME ECONOMICS CENTER
STRAUGHN DR
N LOT
MEMORIAL HALL
NORTH HALL
DECKER GYM
CAMPUS VIEW DR
ALUMNI HALL AND LIBRARY
ADMIN LOT
THE HUT
MALL
PICNIC GROVE
SOUTH HALL
MANSER HALL
LOT
COLLEGE AVE
WATER TOWERS
PRESIDENT'S HOUSE
COLLEGE PLACE
PINECREST MANOR
LAUREL MANOR
Y LOT
X LOT
H LOT
HEMLOCK MANOR
G LOT
MORRIS DRIVE
MAPLE HALL
V LOT
B LOT
DOANE CENTER
TENNIS COURTS
ADMISSIONS
NEW REC. CENTER (COMP 1997)
ALUMNI HOUSE
CLINTON ST
SOUTH ACADEMY ST
ST JAMES ST
CEDARCREST HALL
A LOT
FIRST ST
BASEBALL FIELD
FIELD HOCKEY
UPPER DIVISION PARKING
(C LOT S)



- T Public Telephone (911 service)
- Ⓢ Shuttle Stop 8:00 pm to 10:30 pm
- S Shuttle Stop 8:00 pm to Midnight

PARKING

- V Visitors
- Lower Division Resident Students
- Upper Division Resident Students
- Commuter Students
- Employees (also Straughn Dr, Wilson St, Stadium Dr and Clinton St)

0 50 100
Yards

N
W E
S

artment of Geography and Geology

UNIVERSITY CALENDAR

1996-1997

Fall Semester, 1996

University Meeting Days	Th,F August 22,23
Residence Halls Open for:	
New Students - 9 am	Sa August 24
Returning Students - 9 am	Su August 25
Classes Begin 8 am	M August 26
Last Day to DROP Classes	F August 30
Labor Day Holiday	M September 2
Last Day to: ADD Classes	W September 4
Submit "Credit-By-Exam" form	
Submit "Intent to Graduate" form for May & August 1997	
Submit "Pass/Fail Option" Card	
Submit "Repeat of Course" Card	
Last Day to Turn in "Incomplete" Grades	Tu September 17
Last Day to Complete "Credit-By-Exam"	Tu September 24
Mid-Semester Grades Due	M October 14
Fall Holiday Begins 10 pm	W October 16
Classes Resume 8 am	M October 21
Last day to withdraw from a course	F November 1
Registration for Spring Semester Begins	M November 4
Tuesday, November 26 - students/faculty follow Friday schedule	
Thanksgiving Holiday Begins 10 pm	Tu November 26
Classes Resume 8 am	M December 2
Fall Semester Classes End 10 pm	F December 6
Reading Period	Sa,Su December 7,8
Final Examination Period	M-Th December 9-12
Residence Halls Close 10 am	F December 13
Fall Commencement Exercises	Sa December 14
Fall Semester Grades Due Noon	M December 16

Spring Semester, 1997

University Meeting Days	Th,F January 9,10
Residence Halls Open Noon	Su January 12
Classes Begin 8 am	M January 13
Last Day to: DROP Classes	F January 17
Last Day to: ADD Classes	Tu January 21
Submit "Credit-By-Exam" form	
Submit "Intent to Graduate" form for December 1997	
Submit "Pass/Fail Option" Card	
Submit "Repeat of Course" Card	
Last Day to Turn in "Incomplete" Grades	M February 3
Last Day to Complete "Credit-By-Exam"	M February 10
Mid-Semester Grades Due	W March 5
Spring Break Begins 10 pm	F March 7
Residence Halls Close 10 am	Sa March 8
Residence Halls Open Noon	Su March 16
Classes Resume 8 am	M March 17
Last day to withdraw from a course	F March 21
Spring Holiday Begins 10 pm	F March 28
Classes Resume 8 am	Tu April 1
Registration for Fall Semester Begins	Tu April 8
Spring Semester Classes End 10 pm	F May 2
Reading Period	Sa,Su May 3,4
Final Examination Period	M-Th May 5-8
Residence Halls Close 10 am	F May 9
Spring Commencement Exercises	Sa May 10
Spring Semester Grades Due Noon	M May 12

HISTORY

We were founded in 1857. Four months after the school opened, it burned to the ground. Area residents were so committed to having a college, they immediately rebuilt it. Over the decades, we've gone through five name changes: Mansfield Classical Seminary; State Normal School, State Teacher's College, State College. In 1983 we became Mansfield University, a member of the Pennsylvania State System of Higher Education.
On September 28, 1892, Mansfield made history when our football team played the first night football game in history. The game is re-enacted each year by Alpha Chi Rho during the Fabulous 1890s Weekend.
In 1996 renovations to the historic North Hall were completed. The elegant 19th century Victorian structure now houses one of the world's most state-of-the-art hi-tech libraries.

MU FACTS

We were founded in 1857.
We're a member of the Pennsylvania State System of Higher Education.
We have more than 80 programs leading to associates, bachelors and masters degrees.
Our teaching faculty include some of the world's leading scholars in such areas as English, music, biology and education, to name a few.
Rod Kelchner is president.
The campus consists of 174 acres, 32 buildings, recreation areas, tennis courts, playing fields, indoor swimming pool, three auditoriums, and a new fitness center.

LOCATION:
Mansfield is a borough of 4,000 persons located in the Northern Tier of Pennsylvania on the intersection of U.S. 15 and U.S. 6. We're 50 miles north of Williamsport, PA and 30 miles south of Corning, NY. Driving time from: Harrisburg, PA, 3 hours; Scranton, PA, 2 hours; Buffalo, NY, 3 hours; Binghamton, NY, 2 hours; Philadelphia, PA, 4 hours; Pittsburgh, PA, 5 hours; New York City, 5 hours. Daily bus service, north and south, connects all points in the northeast U.S.

LIBRARY FACILITIES:
Mansfield University has the newest and one of the most electronically advanced libraries in the United States. The main, education and music libraries are housed in the recently renovated five-story North Hall. In the elegant 19th century setting you can do research around the world with portable computers and the internet.

CULTURAL ACTIVITIES
We offer a variety of cultural activities during the acadmic year. The annual Northern Appalachian Storytelling Festival brings nationally known storytellers to campus for a three day series of performances and workshops. The Senate Lecture and Film Series, the Women's Art and Culture Week, and the Global Issues Week are traditions at Mansfield. The Fine Arts Series offers a variety of professional music and dramatic performances and monthly art exhibitions. These cultural offerings complement regular recitals by music faculty and students throughout the year. Fiction and poetry readings as well as other cultural activities round out the university's cultural opportunities.

RESIDENCE HALLS:
Five residence halls house about 1,820 students. Housing options include female only, and co-ed halls. We attempt to house freshman together in clusters for special programming needs.

CALENDAR:
Our academic calendar consists of a fall semester which ends before Christmas and a spring semester ending in mid-May. We also offer summer session coursework May through August.

PROGRAMS OF STUDY:
We offer 10 two-year associate degree programs, over 70 four-year baccalaureate programs in the liberal arts and the professional studies, and masters degree programs. We also offer 35 minors.

DEGREES GRANTED:
A.A.S., A.S., A.A., A.A.S.W., B.A., B.M., B.S., B.S.E., B.S.N., B.S.W., M.A., M.S., M.Ed., plus Teacher Certification.

SPECIAL OPTIONS:
Multiple majors, a self-developed major, honors program, internships, departmental honors, independent study, and individualized instruction.

FACULTY:
We have 181 teaching faculty; 26% of these are full professors; 108 have PhDs or equivalents.

COLLEGE FINANCIAL DATA:
Physical plant value $39,200,000; endowment of $463,000, and operating budget for 1993-94, $34,000,000.

REGION:
Year-round outdoor activities are available in the immediate region. Opportunities include hunting, fishing, skiing, camping, hiking, and water sports. Cultural attractions include the Clemens Center of Performing Arts in Elmira, NY, Corning Glass Museum and Rockwell Museum of Western Art, Corning, NY, and Lumbermen's Museum in Galeton, PA.

MISSION STATEMENT

Mansfield University is dedicated to providing an environment that promotes academic personal growth as well as intellectual, ethical, and aesthetic values. The University serves the region and the national and international communities by developing human and material resources. The University is committed to stimulating continuous pursuit of knowledge and understanding by students, staff, and faculty. To accomplish this mission, Mansfield University pledges:

To provide a liberal education for all its students.
To prepare students for full and purposeful lives through undergraduate and graduate instruction in liberal arts and professional programs.
To plan, develop, implement, and measure its efforts in providing optimum learning opportunities for students of a varity of ages, backgrounds, and needs.
To promote affirmative action and equal opportunity.
To maintain a faculty dedicated to teaching and scholarship.
To cooperate with other educational institutions for the achievement of mutual goals.
To provide educational and cultural programs to the general community.
To offer expertise in public service activities.

STATEMENT OF DIVERSITY

Graduates of Mansfield University are expected to participate in a world that has been enriched by knowledge and insights that require diverse peoples to live and work together. An academic community that values diversity by words and actions provides the best environment in which students can learn the social skills necessary to participate in our multi-cultural environment.

The Mansfield University Council of Trustees reaffirms the purposes of the founders of Mansfield University to "Strive to make education universal; that the rich and the poor, the child of those who have power and place, and of those who tread the lowly paths of life, shall receive alike the blessings of education....and invite equally and alike, without distinction of sex, or color, or race, or creed, or party, the children of all who may desire to participate in the opportunities here offered. That is the highest purpose for which Mansfield may be praised".

Simon B. Elliot, 1912.

SEXUAL HARASSMENT POLICY

Harassment on the basis of sex is a violation of Title VII of the U.S. Civil Rights Act, Title IX of the Education Amendments of 1972, and of the Pennsylvania Human Relations Act, both because Mansfield University is obliged to conform to these regulations and because of the university's commitment to providing an environment within which each person can learn and work to his or her fullest capacity, the university will not tolerate sexual harassment.

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature. Sexual harassment occurs when:

1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment, or a student's academic status or treatment.
2) submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting such individual; or
3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment.

Individuals who believe themselves to be the victims of sexual harassment, or who have questions about the university's policy on this matter should contact the Affirmative Action Office, Pinecrest 113, or call (717) 662-4051.

Existing affirmative action guidelines will be used in processing complaints.

HANDICAPPED POLICY

Section 504 of the Rehabilitation Act of 1973 provides that "no otherwise qualified handicapped individual shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving federal assistance". Section 504 prohibits discrimination against handicapped individuals in recruitment, testing, admissions, or after being admitted to a college/university. Mansfield University is committed to making the necessary adjustments so that handicapped students are able to fulfill academic requirements and to ensure that they are not excluded from programs because of their handicap. Inquiries should be directed to the Affirmative Action Office, Pinecrest 113, or call (717) 662-4051.

HUMAN SUBJECT RESEARCH POLICY

Research projects undertaken by students or faculty of Mansfield University must be approved prior to involvement of human subjects. The review process is intended for the protection of human subjects and this shall be the sole object of the review.

There are two types of review - Category A and Category B. The responsibility for Category A review rests with each department in which research involving human subjects is undertaken. Research protocols are subject to Category A review if they pose no more than minimal risk to human subjects and meet one or more of the five exempted conditions detailed in the Human Subjects Research Guidelines.

Research protocols which do not involve one of the five exempted conditions are subject to Category B review by the Institutional Review Board (IRB).

The review requirements which are outlined in the Human Subjects Research Guidelines do not apply to the following: 1) in-class research exercises which are an integral part of the learning experience in a university course; or 2) behavior modification exercises using established professional procedures; or 3) student teaching and other clinical practicums. The Human Research Guidelines document is available in the Grants and Contracts Office, Doane Center.

CURRICULUM & PROGRAMS

Maintenance of Matriculation

Continued matriculation status applies to program preservation for students in the following categories:

1. Students who have had no interruption in course work of more than one semester.
2. Students who are off campus doing approved course work consistent with program requirements and thereby meet degree or program requirements in effect at the time of initial matriculation.
3. Students who withdraw in good academic standing, who are returning within one calendar year, and who notify the Admissions Office,

Readmit Policy

Matriculated students who have not been in regular attendance during the previous semester must apply for readmission to the university. This does not apply to non-matriculated students.

Readmit applications must be submitted, along with the appropriate fee, by March 1 for the fall semester and November 1 for the spring semester. A statement should accompany the application about activities, including such information as employment, college course work completed, military service, etc. The application fee may be waived, upon withdrawing from the university, for students who provide a letter to the Academic Records Office and Admissions citing reason(s) for withdrawal and stating expected return entry date.

Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission. Before students are readmitted they must clear all outstanding university-related debts.

Transcripts

Official transcripts of courses taken at Mansfield University are prepared by the Academic Records Office and issued according to the following policies:

a. Student's records are confidential. Transcripts, therefore, are issued only at the written request of the student. Requests by telephone are not acceptable.
b. No transcript is issued to or for a student who is indebted to the university until the indebtedness has been paid in full.

c. Official transcripts of credit(s) earned at other institutions that have been presented for admission and evaluation become part of the student's permanent record in the Academic Records Office and cannot be reissued or copied for distribution. Transcripts from other institutions, if needed, must be obtained directly from the original institution.
d. Official transcripts issued directly to the student will only be released in a signed, sealed, embossed envelope. The envelope will bear the statement that if opened the transcript should be considered unofficial and the integrity of the document is not guaranteed by Mansfield University.
e. Unofficial transcripts (student copy) contain the same information as an official, but do not bear the authorized signature or seal of the university.

Certification

Applicants wanting endorsement for teacher certification (initial or added) by Mansfield University (e.g., B.A. degree holder seeking certification in Elementary or Secondary Education; B.S. in Education degree holder seeking added certification) must contact the Certification Officer, Retan Center and complete or submit the following:

1. Personal interview with the Certification Officer, if requested.
2. Application completed and returned with a $25 fee. Application forms are available in the Certification Office, Retan Center.
3. Official transcripts of all college work completed must be sent directly to the Certification Officer at Mansfield University.

Second Baccalaureate Degree

A student who possesses a baccalaureate degree may earn a second bachelor's degree upon completion of the following requirements: 1) a minimum of 32 credit hours at Mansfield following the first degree (internships, observation/participation, and student teaching credit hours are not counted in the required minimum), 2) all requirements for the major in which the second degree is to be earned, 3) General Education is considered closed on the first degree except ENG 313 W and specific General Education requirements for the second degree if not already completed, and 4) earn at least a 2.0 cumulative quality point average (QPA) in all work attempted and in the major. The QPA of the original degree will be "sealed" so there will be a new and totally distinct QPA for the new degree.

Adding Major(s) to a Completed Baccalaureate Degree

A graduate of Mansfield University may readmit to add newmajor(s) to a prior degree. You must be accepted by the department offering the program of study and fulfill all the requirements for the new major. Any courses required in the new major that were completed prior to returning to Mansfield will be waived. General Education will be considered satisfied, except specific requirements for the second major, if they have not already been completed.

The QPA of the original degree will be "sealed" so there will be a new and totally distinct QPA for the new major(s). Students must maintain a minimum QPA of 2.0 in work taken after the baccalaureate degree to remain at Mansfield. There are no minimum number of hours which must be completed after receipt of the degree in order to add a new major

Upon completion of all requirements, a notation will be made on the permanent record indicating the new major(s) and the date completed.

Dual/Multiple Majors

Multiple majors must be within the same degree; that is, a B.A. major may be added to a B.A. degree, a B.S. to a B.S., but not a B.S. to a B.A., etc. The first major selected will be considered primary. All majors will be listed on the student's permanent record when requirements for each major have been satisfied.

Academic Minor

A minor consists of no less than fifteen and no more than 24 credit hours. Students must attain a minimum 2.0 cumulative quality point average (QPA) in all courses required. The Bachelor of Arts degree candidate must choose between a minor or second year foreign language proficiency. Though not a requirement for other degrees, a minor can be used to enhance the student's academic experience and will appear on their permanent record. Minor forms are available in the Academic Records Office, South Hall.

ACCOUNTING
ART
BIOLOGY
BUSINESS ADMINISTRATION
CANADIAN STUDIES
CHEMISTRY
COMPUTER SCIENCE
CREATIVE WRITING
CRIMINAL JUSTICE ADMINISTRATION
CULTURAL ANTHROPOLOGY
ECONOMICS
ENGLISH LITERATURE
ETHNIC STUDIES:AFRICAN-AMERICAN
ETHNIC STUDIES:NATIVE N. AMERICANS
FRENCH
GENERAL COMPUTING
GEOGRAPHY
GEOLOGY
GERMAN
HISTORY
INFORMATION SYSTEMS
INTERNATIONAL STUDIES
LATIN-AMERICAN STUDIES
MATHEMATICS
MUSIC
PHILOSOPHY
PHYSICS
POLITICAL SCIENCE
PROFESSIONAL WRITING
PSYCHOLOGY
PSYCHOLOGY OF HUMAN DEVELOPMENT
REGIONAL PLANNING
SOCIAL WELFARE
SOCIOLOGY
SPANISH
THEATRE
TRAVEL-TOURISM
WOMEN'S STUDIES

Academic Major/Minor Requirements

The requirements for a student's major and/or minor appear on the Evaluation Record (ER) which is maintained in the Academic Record's Office. Students must complete the major/minor requirements that exist at the time they are admitted to the university. Should major/minor requirements change, it will affect only new students and current students who change their program. Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission.

Change of Major/Minor

Change of major or minor forms are available in the Academic Records Office, South Hall.

CLASS STANDING

Class standing is determined by the total number of semester hours earned including credits accepted in transfer from other accredited colleges.

Freshman	0-31	semester hours earned
Sophomore	32-63	semester hours earned
Junior	64-95	semester hours earned
Senior	96 +	semester hours earned

PETITION

Program Variance - Under special circumstances, curriculum requirements may be modified. A department chairperson may substitute or waive major course requirements by informing the Academic Records Office in writing of such requested program

change. Students may petition the Provost, Vice President for Academic Affairs for other program variances.

Waiver of University Policies or Regulations - When any rule or regulation of the university causes an unfair hardship, the student may petition the Provost, Vice President for Academic Affairs for an exception. Students should contact their advisor for assistance in preparation of a petition. Petitions are available in the Academic Records Office, South Hall.

MILITARY SERVICE POLICY

Veterans having completed a minimum of basic training with honorable service in the United States Services Branches (DD214) may apply for three credits in HPE 100 and/or HPE 101-199.

UNDECLARED STUDENTS

Entering students who are not ready to choose a major may be accepted as Undeclared. An advisor will assist students in choosing courses to fulfill General Education requirements and advise them of introductory courses as a means of selecting a suitable major. It is recommended that the Undeclared student choose a major after their second semester freshman year, however, all students must declare a major by the time they have earned 64 credit hours.

COMMUNITY SERVICES/ CONTINUING EDUCATION

The mission of the Community Services, Continuing & Distance Education Division is to provide lifelong educational opportunities both on-campus and at a variety of locations off-campus to high school, non-traditional students including employed adults and professionals. This office is responsible for off-campus undergraduate and graduate courses and programs including all distance education course offerings, the College Bound program, non-credit workshops, camps, conferences, and Summer School.

NON-DEGREE, PART-TIME STUDIES STUDENTS

Individuals who are high school graduates or hold a General Education Development (GED) certificate may choose this alternative route to take course work through the university without taking the SAT or ACT tests.

Although, approval to take coursework as a non-degree, part-time studies student does not imply or guarantee admission to the university or acceptance in a degree program, it does offer flexible educational experiences for nontraditional students. This program enables individuals to enrich themselves or work toward career and/or educational goals through a variety of options.

We ask that you provide evidence of high school graduation by providing official, final transcripts of high school work or a satisfactory score from the GED within the first semester or summer session of enrollment. Students who have attended a post-secondary school are also requested to provide an official transcript from each institution.

Students may earn up to 30 credit hours, exclusive of developmental (090) coursework, and then apply these credits toward a degree program at Mansfield University. Students may schedule up to a maximum of 11 credit hours during each academic semester of attendance.

We provide academic advising and strongly encourage you to get course work advisement before registering for classes. An advisor can help make specific plans and take action to improve your work and your quality point average (QPA); make an informal evaluation of transfer credit if you have previous college work; help you select courses as well as a program of study and explain curriculum requirements. You may schedule an appointment by calling the Community Services, Continuing & Distance Education Division at (717)662-4244 or (800)661-3640.

Non-degree, part-time studies students are required to meet the university's minimum academic requirements. Students who fail to meet those requirements at the end of a semester may be administratively disqualified and denied future enrollment at the discretion of the Provost.

Students may not enroll for coursework during the one year "sit-out" period after a first or second disqualification from the university without the approval of the Provost.

Individuals who are not U.S. citizens must provide a current, valid visa and a TOEFL score (500 minimum) or demonstrate English proficiency.

DISTANCE EDUCATION

Mansfield University delivers undergraduate and graduate coursework through distance education technologies. Retan Center is equipped with videoconferencing equipment which allows for simultaneous interaction to occur between two or more sites and the transmission of voice,data and video. The video conferencing system delivers the best audio and video quality available on the market. This technology facilitates access and provides for high levels of interactivity. The system allows you to input information directly from a personal computer, VCR, document camera or slide projector. It allows you the opportunity to share your ideas visually and facilitate course delivery, workshops, conferences and meetings at a distance. This type of distance education/learning provides a live, interactive type of teaching and transmission. Coursework may be taken while in high school or by non-traditional adults who plan to pursue a degree as well as individuals who are seeking innovative and creative course offerings for enrichment.

All academic coursework offered meets the academic departmental standards and is transcripted as Mansfield University credits. It may be used by full-time students who wish to engage in coursework offered at a more convenient time and location. Non-credit offerings, workshops, meetings can also be provided using this medium. Other technologies including E-mail, audioconferencing, audiographics can be used either as a separate delivery system or in conjunction with the videoconferencing technology. This technology affords the opportunity for students who are geographically remote to engage in educational ventures in accessible locations and at convenient times.

Other support services are available using this technology. For further information contact the Community Services, Continuing & Distance Education Division at (717)662-4244 or (800)661-3640.

COLLEGE BOUND PROGRAM

Mansfield University's College Bound Program is for serious learners who know they will go to college, who wish to explore their potential for college work, or who enjoy studying interesting subjects not normally available in high school.

The College Bound Program provides opportunities on-campus, off-campus and via distance education technologies for outstanding high school students to further develop their academic potential while pursuing college course work. Students approved to participate in this program will take liberal arts and/or science courses accepted at most colleges/universities in the United States.

Course offerings will enable students to pursue academic interests or select a possible career choice. All academic courses offered meet departmental standards and are transcripted as Mansfield University credits. Students seeking approval to take course work through the College Bound program must demonstrate potential for success at the college level.

Applicants must be recommended by their high school guidance counselor and demonstrate the ability to think critically and analytically. In recommending students for the College Bound Program, high school guidance counselors should use, but are not limited to the following guidelines: students who have pursued an academic curriculum in grades 9-12 and have demonstrated mastery of writing, mathematical and reading/study skills. College Bound applicants must also demonstrate maturity and social

skills appropriate for success in college course work. Students who meet the requirements for the College Bound Program are approved to pursue course work but not admitted as a matriculated student to the University.

An approved College Bound candidate is not typically eligible for financial aid. However, students who have been approved to take course work as a College Bound Student will have their initial application fee waived. If you are taking course work as a College Bound Student through distance education, the course offering will be made available with the latest videoconferencing technology. You will see and hear your professor live on screen in your own high school or local video conferencing facility. You can ask questions, take part in discussions, participate with the professor and students in a Mansfield University classroom.

Students interested in the College Bound Program must submit a College Bound Course Registration/Application to the Community Services, Continuing & Distance Education Division at (717)662- 4244 or (800)661-3640.

SUMMER SCHOOL

The Summer School program at Mansfield University is designed to meet the needs of a variety of students. A wide range of educational opportunities include credit courses for undergraduate and graduate students as well as workshops, travel credit courses, and seminars in the liberal arts, teacher education, and other fields of study.

Summer sessions are open to all students who have earned a high school diploma or GED, but does not imply or guarantee admission or readmission to Mansfield University.

Continuing university students, including new admits, who wish to accelerate their program of study will find both general education and other courses in a variety of fields of study. Students from other colleges and universities may take courses at Mansfield University. However, they are advised to first ensure that their home institution will transfer credits earned.

Teachers and graduate students will find courses in the summer program to serve a variety of needs. They may enroll to complete requirements for permanent certification, take refresher courses in their field of specialization, or for the purpose of extending their certification to a new field.

The Summer Session bulletin is usually available after March 1 at the Summer School Office, Doane Center, (717-662-4850) or the Graduate Office, North Hall 511 (717-662-4806).

SENIOR CITIZENS PROGRAM

A tuition waiver is offered to senior citizens who are receiving Social Security retirement and are at least 62 years of age (or minimum age as defined by the Federal Social Security Administration). You may register for courses offered in the fall, spring and summer sessions. You may either audit the class or take the class for credit. You will be asked to complete a Senior Citizen Tuition Waiver form at the Revenue Office requiring proof of benefits (copy of monthly check or statement from the Social Security Office). Since tuition only is waived, you will be charged miscellaneous fees associated with the number of credits requested. For more information, contact the Community Services, Continuing & Distance Education Division at (717)662-4244 or (800)661-3640.

Persons interested in continuing education programs should contact the Community Services/Continuing Education Office, Doane Center (717)662-4244.

Withdrawal from The University

Students may withdraw from the university by submitting the withdrawal form to the Assistant to The Provost, North Hall 510. Except for extenuating circumstances (e.g., medical reasons), students are not guaranteed readmission. Upon receipt of the form, all appropriate offices will be promptly notified. Withdrawal forms are available in the Assistant to The Provost's Office or Academic Records Office, South Hall.

ACCREDITATION

The principal accrediting agencies for Mansfield University are:

-The Middle States Association of Colleges and Secondary Schools, (baccalaureate degree, the National Council for Accreditation of Teacher Education (baccalaureate degree);

-The National Association of Schools of Music (baccalaureate degree);

-The Council on Social Work Education (baccalaureate degree); The National Association for Music Therapy (baccalaureate degree);

-The Committee for Allied Health Education (baccalaureate degrees), Registered by the PA Board of Nursing.

STUDENT BODY

STUDENT ENROLLMENT:

3,223 enrolled, 2,743 attend full-time, 1,901 females, 1,322 males. Students come from 20 states and 21 foreign countries.

STUDENT-FACULTY RATIO:

Average ratio is 15:7. About 78% of classes have fewer than 30 students; 50% fewer than 20 students; only 5% have 50 or more students.

STUDENT FINANCIAL AID:

Over 80% of students receive financial assistance in some form.
About 50 scholarships are awarded annually.

ADMISSIONS AND FINANCES

ADMISSIONS

REQUIREMENTS FOR ADMISSION

To be considered for admission to Mansfield University you must graduate from an approved secondary school or have obtained equivalent preparation as determined by the Credentials Evaluation Division of the Pennsylvania Department of Education. Admission to the university will be granted to those applicants who successfully complete the college preparatory secondary school work (grades 9-12). Credentials should also include a class rank in the upper three fifths of the graduating class and a satisfactory score on the Scholastic Aptitude Test (SAT) or the American College Testing (ACT).

Recommended Preparatory Course Work:

English	4 Credits
History or Social Studies	4 Credits
Laboratory Science (Bio, Chem)	2 Credits
Algebra, Plane Geometry, Algebra 2	3 Credits
Foreign Language	2 Credits
Electives (academic)	6 Credits
Total	21 Credits

APPLICATION PROCEDURES (FRESHMAN)

Contact the Admissions Office to receive an application for admission to the undergraduate programs at Mansfield University. The Admissions Office will begin accepting applications on July 1 following the student's junior year of high school. NOTE: Fees subject to change without notice. A complete application should include a $25 non-refundable application fee as well as the following credentials:

1. An official high school transcript. (An official copy must bear school seal and signature of an official.)
2. An official copy of the Scholastic Aptitude Test (SAT) or American College Test (ACT).

STUDENTS WHO MISREPRESENT, ALTER, OR OMIT ACADEMIC CREDENTIALS PRIOR TO ENROLLMENT AT MANSFIELD UNIVERSITY WILL HAVE THEIR ACCEPTANCE REVOKED. IF THE MISREPRESENTATION, ALTERATION, OR OMISSION IS DISCOVERED AFTER ENROLLMENT THE STUDENT WILL BE CHARGED WITH VIOLATION OF THE UNIVERSITY POLICY AND WILL BE SUBJECT TO JUDICIAL PROCEEDINGS.

DEADLINES FOR APPLICATION

Mansfield University has a rolling admissions policy. We encourage you to apply early. All applications will be considered based upon academic credentials and space availability for the entry date requested. Once we receive all credentials and supporting documents, the Admissions Committee will notify you in a timely fashion.

WHEN OFFERED ADMISSION

Applicants offered admission while still enrolled in high school/college are expected to maintain or improve upon the academic scholarship presented when the credentials are initially reviewed. Failure to maintain scholarship, as reflected on final official transcripts (including class rank, grade point average, and course/credits scheduled), may result in revocation of the offer of admission.

When an applicant has been granted admission and fails to enroll, the offer of acceptance will be valid for only one year following the entry date originally applied for, provided your academic credentials have not changed in the meantime. After one year the student must reapply for admission as a new applicant and meet the standards for acceptance current at the time of reapplication.

The university reserves the right to establish or change admission standards as it deems necessary.

ADMISSION CATEGORIES

If you meet the minimum qualifications as outlined you will be offered admission to the university as a "regular accept" for the fall semester. Other admissions categories are as follows:

SUMMER DEVELOPMENTAL PROGRAMS

If you show a potential for success in college but do not meet the regular requirements for fall acceptance, you may be considered for one of our summer developmental programs (ACT 101 or AOP). You may not have completed the recommended high school course sequence or may require preparatory course work to polish your skills. Your high school credentials may rank below the university's minimum requirements but reveal potential for future success.

Students selected for this program attend a six-week summer developmental program pursuing course work which is based on diagnostic-placement results. Upon successful completion of this program, you will continue as a matriculated student in the fall term.

For details, contact the Director of Admissions (717) 662-4243.

EARLY DECISION

Consideration for an early decision for fall entrance will be given to candidates who meet prescribed requirements in terms of secondary school achievement and junior year SAT scores. Those offered admission through this program will be required to submit scores from a senior year examination of the SAT. Applicants who qualify for early decision will be notified upon receipt of the completed application, application fee, official high school transcript, and junior year SAT/ACT scores.

An advance deposit must be paid within 30 days of the offer of admission to reserve a space in the incoming class.

EARLY ADMISSION

High school seniors who meet admission requirements and are interested in attending Mansfield University full-time in lieu of attending high school in their senior year, upon final approval and acceptance, are considered freshmen at MU. All policies and procedures applicable to university freshmen apply to them. Candidates for this option are responsible for seeking and receiving permission from their high school administration/school board to attend MU in lieu of their senior year of studies within high school. It is strongly recommended that candidates secure a written statement of the approval as well as a statement assuring them that, upon successful completion of the freshman year of studies and presentation of an official transcript of scholastic achievement, a high school diploma will be awarded by the high school of origin. Any specific course requirements which must be fulfilled during the freshman year of college studies to satisfy requirements for a high school diploma, must be identified by the guidance counselor on the Admissions form.

The candidate must file an application form, submit official high school transcripts, standardized test scores, and letters of recommendation, including a recommendation from the high school guidance counselor. The application is reviewed by the Admissions Committee and Director of Admissions. The need to take any developmental course work in the basic skill areas- reading, writing, or mathematics will result in disapproval of the application. If the candidate is deemed eligible, they will be notified of acceptance into the Early Admissions Program.

Inquiries regarding the Early Admissions Program should be directed to the Director of Admissions (717) 662-4243.

VISITING STUDENT PROGRAM

The Visiting Student Program allows students enrolled full-time at a Pennsylvania State System Higher Education university to enroll at a sister institution for a limited period. Students wishing to enroll at Mansfield University as a visiting student must receive permission from their home university.

The student must have satisfactorily completed at least 27 credits at the home university and be in good academic standing. A maximum of 18 credits may be taken in a single semester and up to 16 credits of summer work as a visiting student.

Applications for visiting student status (with appropriate signatures reflecting home campus approval) must be submitted to Mansfield University's Continuing Education Office for approval. The completed visiting student application (available from the home institution) provides verification of good academic standing. No further credentials will be required for admission into the visiting student program at Mansfield University. An application fee of $25.00 will be required.

It is the responsibility of the visiting student to request a Mansfield University transcript to be forwarded to the home campus after courses have been completed. Mansfield University will assign credit and grades in accordance with its own polices and procedures.

SPECIAL ART/MUSIC PROGRAM REQUIREMENTS

Applicants for an art degree, having satisfied general college admissions requirements and prior to formal acceptance into an art program, must present a portfolio of their work to the Art Department for evaluation.

Applicants for a music degree, having satisfied the requirements for general college admission, must audition for acceptance into the music department. Acceptance is based upon a demonstration of both musical aptitude and musical accomplishment. For further information contact the Music Department (717) 662-4710.

TRANSFER ADMISSION POLICY

Students are normally eligible for transfer admission consideration if they have attained an overall 2.0 cumulative quality point average (QPA) at an accredited post-secondary institution. Exceptions are as follows: Nursing, 2.5 QPA; Education, 2.5 QPA. Credit will only be awarded for college level courses completed in accredited colleges/universities. "Accredited" is defined to include accreditation by any of the seven regional accrediting bodies only, e.g. Middle States for this region. Credits presented from non-accredited colleges or universities are not eligible for transfer consideration.

APPLICATION PROCEDURE (TRANSFER)

Contact the Office of Admissions for a transfer application. Transfer students should submit the application along with official transcript(s) from all post-secondary institutions previously attended. All information should be sent to the Coordinator of Transfer and Articulation, Admissions Office, for review. Mansfield University has a rolling admission policy. All interested applicants are encouraged to apply early. Applications will be considered based upon academic credentials and space availability for the entry date requested.

Applicants who have earned fewer than 32 credits in college level work are required to submit an official high school transcript and an official record of the SAT/ACT. The SAT/ACT scores are not required if the applicant is 21 years or older or has been out of high school for three or more years.

Transfer students for the fall and spring semesters are normally notified on a rolling basis prior to their desired enrollment date. An evaluation of credits accepted in transfer will be made upon acceptance.

Students who are approved for transfer to MU and are enrolled at another institution will be granted admission on a provisional basis until all records from the previous institution have been reviewed and finalized.

TRANSFER EVALUATION

Following acceptance into the university, an evaluation of courses taken at previous institutions is made by the Transfer Coordinator in consultation with the chairperson of the student's major department.

Credits will be evaluated on a course-by-course basis. General Education requirements will not automatically be met. Any exceptions to this policy are specified in articulation agreements of transfer between Mansfield and two-year institutions. Presently, agreements exist with Corning Community College, Harrisburg Area Community College, Keystone College, Lackawanna Junior College, Lehigh-Carbon Community College, Luzerne County Community College, Pennsylvania College of Technology, and Reading Area Community College.

Only those courses for which a "C-" grade or better has been earned will be considered for transfer credit to Mansfield University unless the student has earned an Associate of Arts, Associate of Science or Bachelors degree from an accredited two or four year college/university. Consistent with this policy credit will only be awarded for those courses with transcript notations such as "Pass", "Credit by Examination", and "Satisfactory" when a grade of "C-" or better is required for the award of such grade. NOTE: No grades or quality point average (QPA) transfer from a previous institution. Credits will transfer, but not grades.

Credits presented from non-accredited colleges or universities are not eligible for transfer consideration. "Accredited" is defined to include accreditation by any of the seven regional accrediting bodies only, e.g., Middle States Association for this region.

Transfer-Credits: The following is a brief explanation of the most common grading systems used in addition to the semester hour-quarter hours and units- which are utilized at other institutions. There are others. The system employed by a college will usually be indicated on the transcript. Questions should be addressed to the Transfer Coordinator, Admissions Office.

In converting to the semester hour system, quarter hours are multiplied times 2/3; thus three-quarter hours are equivalent to two semester hours, four-quarter hours equals 2 2/3, five quarter hours equal 3 1/3, etc. The total number of quarter hours multiplied times 2/3 results in the total number of semester hours accepted in transfer. Any excess fraction in the total number of transfer credits is discounted.

One unit is usually equal to 3.5 semester hours. Thus, the number of units is multiplied times 3.5 semester hours. The treatment of fractional hours is the same as stated for the quarter-hour system in the preceding paragraph.

The number of credit hours that transfer from another institution is the same number awarded for completion of course work at that college/university. For example, some institutions do not give credit for physical education courses. A student accepted from such an institution is considered to have met the physical education requirement at Mansfield for as many PE courses as taken previously, but no credit would be awarded. Similarly, Introductory Biology might carry three credits at another institution and three credits would be given in transfer for such course even though the equivalent biology at Mansfield is four credits. Furthermore, if a U.S. History course is four credits at another institution, four credits would be given in transfer even though U.S. History at MU is a three credit course.

Because of the time sequence necessary for the development of skills required by the music curriculum, students are advised to transfer as early as possible. Otherwise, it becomes increasingly difficult to complete the curriculum within the normal four-year span

of time. Credits in the music area must be validated by examination before they may be accepted for transfer. This is to insure that the student is capable of successfully completing the remaining courses which will be required.

MAXIMUM HOURS ACCEPTED IN TRANSFER

Mansfield University will not accept more that 67 semester hours of course work in transfer from accredited two-year junior or community colleges. There is no limit on credits accepted from a four-year accredited college/university. Fifty percent of major related courses must be completed at Mansfield University.

ACADEMIC DISMISSAL POLICY FOR TRANSFER STUDENTS

Transfer students are subject to academic dismissal after their first semester only if their QPA is less than 1.00. After they have completed two semesters at Mansfield, transfer students are subject to the minimum academic requirements of the university based upon the total number of Mansfield and transfer credits attempted.

READMISSION OF FORMER STUDENTS

Any student who has not been in attendance during the previous semester must apply for readmission to the university. Exceptions to this policy include non-degree part-time students, inservice teachers not seeking a degree or program certification, and students in continuing education.

An applicant for readmission should request an application form from the Admissions Office and return it with the admission fee. This fee is waived for students readmitting after a break of no more than two semesters. A statement about activities, including such information as employment, college course work completed, military service, etc. should accompany the application.

Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission. Before students are readmitted, they must clear all outstanding university-related debts.

Principles of Enrollment Management

Mansfield University endorses enrollment management principles and reserves the right to limit the total number of freshmen, transfer, and readmission students within specific degree programs as well as the total entering class each entry date. Official entry dates occur in the summer, fall, and spring each academic year. You may be offered admission to a waiting list based upon these principles. Assignment of confirmed spaces will be made after a comprehensive review of academic credentials.

EXPENSES

Based on costs for 1995-96. Information is subject to change without notice.

ADMISSION FEES (NON-REFUNDABLE)

Application Fee	$ 25.00
International	$ 35.00

Students applying for admission or readmission must pay this fee when submitting their application.

Advance Deposit	$160.00

Required upon acceptance of the offer of admission. It is transferrable to a revised admission date within one year upon the approval of the Director of Admissions.

TUITION - PER SEMESTER

	Residents of Pennsylvania	Residents of Other States
FULL-TIME UNDERGRADUATE 12-18 credits	$1612.00	$4099.00
FULL-TIME GRADUATE 9-15 credits	$1612.00	$2897.00
PART-TIME UNDERGRADUATE under 12 credits over 18 credits	$134.00/cr.	$342.00/cr.
PART-TIME GRADUATE under 9 credits over 15 credits	$179.00/cr.	$322.00/cr.

SUMMER SESSIONS

Tuition is charged at the current per credit rate.

NOTE: Students taking a combination of undergraduate & graduate credits will be charged at the course level and will not be combined for the full time basic fee rate.

Fees for courses audited are the same as those taken for credit. We offer a waiver of tuition for employees and dependents, graduate assistants, senior citizens, and international students. Additional information concerning instructional fees and waivers is available through the Controller's Office.

HOUSING/FOOD SERVICE FEES

RESIDENCE HALL STUDENTS

Double Room	$ 981.00
Private Room	$1471.50
Mini-Single	$1226.00
Double plus 19 meals	$1716.00
Double plus 14 meals	$1719.00

Requests for a private room are processed by the Housing Operations Office, 120 Pinecrest and are granted on a space available basis. Payment does not guarantee a private room.

COMMUTER AND OFF-CAMPUS STUDENTS

19 meals ($ 50. flex)	$735.00
14 meals ($100. flex)	$738.00

10 meals ($ 50. flex)	$601.00
5 meals ($ 50. flex)	$429.00
Flex Only	$100.00

Flex dollars are built in to each meal plan and may be used as cash at any dining location. Additional flex dollars may be purchased in increments of $25. NOTE: Unused flex dollars are carried over from fall to spring semester. Unused flex dollars at the close of the spring semester are forfeited.

Room rates include telephone service (does not include toll charges). Linens and pillows are not provided.

All residence hall students must utilize dining services. Dining fees will be assessed regardless of whether or not dining services are actually used.

All new residence hall students will be automatically charged with the 14 meal plan. Requests to change to the 19 meal plan must be made by August 1. Changes to original dining selections are not permitted after the semester begins.

Dining exemption forms for medical reasons are available at the Office of the Vice President for Student Affairs and must be initiated before the beginning of a semester. Dining charges will be assessed until the proper approval is granted.

All students not commuting from home must reside on campus. Approval to move out of the residence halls must be obtained from the Director of Residence Life, 120 Pinecrest.

STUDENT UNION BUILDING FEE & OPERATING COSTS

Paid by all students to support the debt for the student community building.

Undergraduate	
1 to 6 credits	$ 8.75
7 to 9 credits	$17.50
10 or more credits	$35.00
Graduate	
1 to 6 credits	$ 8.75
7 to 8 credits	$17.50
9 or more credits	$35.00

MISCELLANEOUS FEES

EDUCATION FEE

Paid by all students to support high-cost programs, labs, equipment, etc.

	Residents of Pennsylvania	Residents of Other States
Full-time Undergraduate	$140.00	$140.00
*Part-time per credit	$ 12.00	$ 30.00
Full-time Graduate	$140.00	$140.00
*Part-time per credit	$ 16.00	$ 28.00

*Per credit rate not to exceed full-time rate per semester.

HEALTH FEE

Primary medical care is provided to registered full-time and part-time students while the university is in session.

Undergraduate	
7 to 11 credits	$12.50
12 credits and over	$25.00
Graduate (optional)	
8 credits & under	$12.50
9 credits and over	$25.00

FITNESS CENTER FEE

All undergraduate, matriculating students are assessed this fee. The student body approved the fee in spring, 1995, to support the construction and operating costs of the center.

Undergraduate

1 to 6 credits	$ 25.00
7 to 11 credits	$ 50.00
12 credits and over	$100.00

Graduate - optional at same rates.

STUDENT ACTIVITY FEE

This fee was established by the Student Government to support student activities.

Undergraduate

7 to 11 credits	$ 50.00
12 credits and over	$100.00

Graduate - optional same rates.

RECREATION/ATHLETIC FEE $ 50.00

A one time fee paid by all first time matriculating students to support overall recreation and intercollegiate athletic programs.

ABOVE FEES ARE PAYABLE TO MANSFIELD UNIVERSITY AND ARE REQUIRED BY ESTABLISHED DUE DATES.

OTHER FEES

DIPLOMA FEE **$ 20.00**

Each candidate for a degree is assessed this fee.

GRADUATE DEGREE CANDIDACY FEE $ 10.00

This fee must be paid upon application for admission to degree candidacy.

LATE CONFIRMATION/REGISTRATION FEE **$ 25.00**

Students who register after the date officially set for confirmation are assessed this fee.

DEFERRED PAYMENT FEE $ 25.00

Students may defer payment for up to one half of the balance due for six weeks after confirmation. The balance due is defined as the total fees for the current semester, minus approved financial aid. Non-payment of the full balance due incurs the $25 fee.

RETURNED CHECK FEE **$ 25.00**

Students are assessed this fee for each check returned by the bank.

CERTIFICATION FEE $ 15.00

Teaching certification applications processed by the Academic Records Office require a $15 money order made payable to Mansfield University.

CREDIT BY EXAMINATION FEE (per exam)

One third of the undergraduate fee per credit must be paid prior to approval from the Provost's Office for testing.

TELEPHONE FEE **$ 10.00**

This fee is assessed for reconnecting long-distance phone privileges or acquiring a new access code.

PARKING DECAL FEE **$ 5.00**

This fee is for a permit that is valid from September through August, or any part thereof.

TRANSCRIPT FEE

There is no charge for transcripts. All delinquent financial obligations MUST BE CLEARED prior to the release of transcripts. (See Delinquent Accounts section)

Contact Career Development and Placement Services for information on the following tests and fees: Miller Analogies Test; National Teachers Exam (NTE); Graduate Record Exam (GRE); Scholastic Aptitude Test (SAT). Information regarding the College Level Examination Program (CLEP) may be obtained from Brian Barden in Admissions.

TUITION AND FEE SUMMARY OF TYPICAL FULL-TIME UNDERGRADUATE EXPENSES PER SEMESTER. (EXCLUDING BOOKS AND SUPPLIES)

	Resident of Pennsylvania	Resident of Other States
Residence Hall Students	$3721.00	$6208.00
Commuter Students	$2002.00	$4489.00

NOTE: There will be no financial adjustments for tuition and fees after the semester ends. All petitions should be initiated in time to allow for a decision prior to the end of a semester.

CAUTION: If charges are covered by financial aid, course schedules will not be dropped through confirmation and students will be assessed accordingly. Therefore, students who have registered for a future semester must notify the Assistant to the Provost immediately at (717) 662-4805 if they do not plan to attend.

REFUNDS & ADJUSTMENTS

Withdrawal from university (matriculated students only):

Tuition, dorm, and miscellaneous fees will be adjusted according to the EIGHT WEEK federal refund schedule for returning students. Dining refunds are based on a weekly rate. Students attending the university for the first time will be adjusted according to the TEN WEEK refund schedule.

	EIGHT WK	TEN WK
First day of class	100%	100%
First week	90%	90%
Second week	90%	80%
Third week	50%	80%
Fourth week	50%	70%
Fifth week	25%	60%
Sixth week	25%	60%
Seventh week	25%	50%
Eighth week	25%	50%
Ninth week	No Refund	40%
Tenth week	No Refund	30%
Eleventh week		No Refund

Please refer to summer Master Schedules for summer session refund schedules.

Tuition and miscellaneous fees will be adjusted at 100% through the drop period. There is no fee adjustment for course withdrawals. All requests for refunds should be in writing to the Revenue Office.

DELINQUENT ACCOUNTS

Students will not be permitted to enroll for course work, to receive a diploma, or transcripts until all overdue accounts have been paid. Delinquent accounts will be turned over to a collection agency and all applicable collection costs passed on to the student.

Students requesting transcripts are encouraged to pay any outstanding balance by money order or cashier's check to avoid a two-week clearing period on personal checks.

RESIDENCY

As a student, you are classified as a Pennsylvania resident for instructional fees purposes if you have a Pennsylvania domicile.

Domicile is the place where you intend to and do permanently reside. Because the determination of whether you intend to reside indefinitely in Pennsylvania is necessarily subjective, documentary evidence statements from disinterested persons, and the presumptions set forth below will be considered.

a) Continuous residence in Pennsylvania for a period of 12 months prior to registration as a student at an institution of higher education in Pennsylvania creates a presumption of domicile. A student is presumed not to be a domiciliary if he/she has resided for a shorter period before attending an institution of higher education, but may rebut this presumption by clear and convincing evidence.

b) Students who are not United States citizens, and have nonimmigrant visas or lack a visa, are presumed not to be domiciled in Pennsylvania, but they may rebut this presumption by clear and convincing evidence.

c) A minor is presumed to have the domicile of his or her parents or guardian. The age of majority for establishing a domicile for tuition purposes is 22. However, a minor may prove financial emancipation and thereby prove Pennsylvania domicile through clear and convincing evidence.

d) A United States government employee or a member of the armed forces who was domiciled in Pennsylvania immediately preceding entry into government service and who has continuously maintained Pennsylvania as his or her declared legal residence, shall be presumed to have a Pennsylvania domicile. Nonresidents stationed in Pennsylvania for military service shall be deemed Pennsylvania domiciliaries.

e) A student receiving a scholarship, loan or grant, dependent upon maintaining domicile in a state other than Pennsylvania, is presumed to be domiciled in the state from which he/she is receiving financial aid.

A student may challenge his/her residence classification by submitting a written appeal to the Controller. If the student is not satisfied, the decision may be appealed in writing to the Office of the Chancellor, State System of Higher Education, within 30 days. The decision of the Chancellor is considered final. The effective date of any reclassification resulting from the student's challenge will be determined by the Controller based on when the petition was filed. A student who changes his domicile from Pennsylvania to another state must promptly give written notice to the University.

FINANCIAL AID

The student Financial Aid Office staff provides information and assists in meeting college expenses. We attempt to inform students of application procedures and deadlines, types of aid available, eligibility requirements, and other pertinent data.

As a state university, our basic fees are substantially lower than those of private colleges. The public subsidy is reflected in the fees to all students, while remaining committed to offering financial aid to able students who can show evidence of financial need. While we help in any way we can, the basic financial responsibility of acquiring a higher education continues to be the obligation of the student and his/her family.

Matriculation at Mansfield University is by semester. As a student you are expected to meet the expenses of the upcoming term without assistance unless such aid has been previously arranged and confirmed. Mansfield University participates in the major federal and state financial aid programs. The types of aids that are available include the Federal Pell Grant, PHEAA state grant, and the three campus-based aid programs. The three programs are Federal College Work Study, Federal Supplementary Educational Opportunity Grant, and the Federal Perkins Loan (formerly National Direct Student Loan). You may also apply for the Federal Stafford Loan (formerly Guaranteed Student loan) from your bank. Other loan programs available include the Parent Plus Loan for undergraduate students.

We emphasize the following points:

1. You should file for financial aid immediately upon confirmed admission to Mansfield University.
2. To apply for aid, all students, regardless of the state in which they live, must file the Free Application For Student Aid and the institutional application. The filing of these two documents constitutes a completed application for all available types of aid with the exception of the Federal Stafford Loan application which may be obtained from your hometown bank.
3. The important deadline dates for campus-based aid are April 1 for fall semester and November 1 for spring semester. PHEAA has a deadline date of May 1 for the state grant program.
4. You must mention Mansfield University (003324) as an institution of choice on the FAFSA application. If you don't do this, we won't get your need analysis.
5. You are considered a sophomore with 30 credits, a junior with 60 credits and a senior with 90 credits. This is important for Federal Stafford Loan purposes.
6. Refer to the Financial Aid brochure for details on financial aid programs available, on deadline dates,and other particulars.

Student and parents may call the Financial Aid Office at (717) 662-4129 with questions any time.

ACADEMIC PROGRESS

To continue receiving financial aid in any of the Title IV programs, federal regulations require that you make academic progress. The Title IV programs include College Work Study, Perkins Loan (formerly National Direct Student Loan), Supplemental Education Opportunity Grant, Pell Grant, and Stafford Loan (Guaranteed Student Loan). In addition, state grants also must be reviewed under academic progress guidelines.

In order to be making "satisfactory progress," full-time students must pass at least 24 credits per academic year. Records will be monitored each year at the end of the fall and spring semesters. If at the end of the fall semester you do not pass at least 12 credits, you must schedule an appropriate number of credits over 12 in the spring semester to

meet the satisfactory progress guidelines. If at the end of the spring semester you have not passed 24 credits, you will be notified that you will not be eligible for the following academic year or until the deficiency has been corrected. You may enroll for credits during the summer, and those credits can be totalled with prior credits to satisfy the academic progress requirement. If aid is terminated for one semester, it will reinstated for the following semester after the 24-credit requirement has been fulfilled. Special students are not eligible for any financial aid.

Repeating credits already passed will not count towards the 24 credits. If you register for 12 credits in the fall and receive a "D" grade in a 3-credit course and again schedule 12 credits for the spring semester and repeat the "D" grade, you will only be credited with 21 credits toward progress.

It should be noted that any student who only passes 24 credits per academic year will not be able to graduate in 4 years or 8 semesters. In fact, if you only complete 24 credits per academic year on a consistent basis you will need over 5 years or 11 semesters to complete your degree.

Students at Mansfield University will be allowed to receive financial aid for 10 semesters or 5 years, unless the specific aid program is limited to a shorter period of time. Some aid programs are limited to 8 semesters or 4 years and students could be eliminated from those programs even though they have not completed their undergraduate degree. Part-time students will be entitled to aid over a period of time on a pro-rated amount based on part-time enrollment.

Academic year completed	1	2	3	4	5
Number of credits successfully completed	24	48	72	96	128

In addition to the 24-credit requirement, you must maintain the necessary quality point average (QPA) as outlined below:

0-18	credit hours attempted	1.00 QPA
19-37	" " "	1.60 QPA
38-56	" " "	1.80 QPA
57+	" " "	2.00 QPA

MINIMUM ACADEMIC REQUIREMENTS

You are allowed to retain financial assistance provided you are meeting the QPA requirements or are officially permitted to remain at Mansfield and are in compliance with the 24-credit regulations.

A student who received Title IV aid for the first time for an award year beginning on or after July 1, 1987, must have at the end of his/her second academic year an average which is the equivalent of a "C" average consistent with graduation requirements. For example, a student who attempted 55 credits must have a QPA of 1.80 or they will lose their aid until a satisfactory QPA is obtained.

If you have been out of school for one full year, you will be deemed to be making satisfactory progress for financial aid purposes.

VETERANS BENEFITS

Eligible students may qualify for Veterans Educational Benefits as well as financial aid. The application procedure for financial aid is the same as that outlined for any regular student. Students may qualify for Veterans Educational Benefits through several different programs run by the Veterans Administration. These forms are available through the veterans certifying official on campus, Room 107, South Hall. In addition, PA Veterans who are honorably discharged may be eligible for a PHEAA Grant for up to 80% of their annual tuition.

FEDERAL GRANT PROGRAMS

Federal Pell Grants. Federal Pell Grants are available to undergraduate students who meet the need based eligibility criteria. To apply for a Federal Pell Grant, complete a free application for federal student aid, available from high school guidance offices or the Financial Aid Office. Procedures and deadlines are in the form's instructions. Within six weeks you will receive notification of eligibility. These student aid reports must be submitted to the Financial Aid Office.

Federal Supplemental Educational Opportunity Grant (FSEOG). This program is for undergraduate students of exceptional financial need who would otherwise be unable to continue their education. To be eligible, undergraduates must be enrolled at least half time (6 Credits). FSEOG Grants at Mansfield normally range from $400 to $1000 per academic year. Campus Aid applications are available from the Financial Aid Office. Application deadlines are April 1 for the fall semester, November 1 for the spring semester.

STATE GRANT PROGRAMS

The Pennsylvania Higher Education Assistance Agency (PHEAA) provides State Grants (PHEAA Grants) to help Pennsylvania residents in need of financial assistance attend approved institutions of higher education. Mansfield University is approved by PHEAA. PHEAA Grants are available to both full and part time students.

The program assumes that primary responsibility for education expense rests with students and their families. Grant recipients are expected to work during the summer to assist in meeting expenses and parents are expected to contribute according to their ability. Grant sizes vary depending on educational expenses and family size and resources.

PHEAA Grants are subject to annual review and may change from year to year. Renewal depends on satisfactory academic standing, continued need for financial assistance, and the availability of funds appropriated by the Pennsylvania General Assembly. Applications for PHEAA may be obtained from high school guidance officers, or the Financial Aid Office. The application deadline is May 1.

STUDENT EMPLOYMENT PROGRAMS

Federal Work Study Program (FWS). This program provides jobs for students who have financial need and must earn a part of their educational expenses. Students are eligible if they are enrolled at least half time (6 credits). Campus Aid Applications are available from the Financial Aid Office and the deadlines are April 1 for the fall semester, and November 1 for the spring semester.

Mansfield University Employment Program. This program differs form the Federal Work Study Program in that students do not have to demonstrate financial need in order to qualify. Campus Aid Applications are available from the Financial Aid Office and the deadlines are April 1 for the fall semester and November 1 for the spring semester.

LOAN PROGRAMS

Federal Perkins Loans. This program is for students who are enrolled at least half time (6 credits) and need a loan to meet their educational expenses.

Maximum loans are $3,000 for undergraduate students and $5,000 per year for graduate students. Because of limited funds, the average loan approved for Mansfield students is $800-$1,200 per academic year. Repayment begins six to nine months after leaving school with up to 10 years to repay. During the repayment period, five percent interest is charged on the unpaid balance of the principle.

Campus Aid Applications are available from the Financial Aid Office. Application deadlines are April 1 for the fall semester, November 1 for the spring semester.

Federal Stafford Loan Program. This program enables students to borrow directly from a bank, credit union, or other participating lender. The loan is guaranteed by the state or a private non-profit agency or insured by the federal government.

To be eligible, you must be enrolled at least half time (6 credits) and meet financial need requirements. In Pennsylvania, the maximum loan for an undergraduate ranges from $2,625 to $5,500 a year. Total loans may not exceed $23,000 for undergraduate study.

Repayment normally begins six months after leaving school with up to 10 years to repay. The size of repayments depends upon the size of the debt and ability to pay. In most cases repayment must be at least $600 a year unless circumstances agreed upon by the lending institution warrant a lesser amount.

Additional information and applications are available from participating lending institutions in your community.

Federal Unsubsidized Loan Program. Similar to the Federal Stafford Loan program, however you do not need to have a demonstrated financial need and interest must be paid quarterly while the student is in school.

Parent Loan for Undergraduate Students (PLUS). This program allows parents to borrow directly from a bank, credit union, or other participating lender for their undergraduate child.

A parent can borrow the difference between the cost of education minus any other financial aid received. The parent usually begins repayment of interest and principal within 60 days of loan disbursement.

Alternate Funding Source: Resource Loan: Additional funding source over and above funds available through the Federal Stafford Loan. Students must have a credit worthy co-signer and be eligible for at least $1,000 in funds. Payback on loan begins after graduation. Information is available in the Financial Aid Office.

FINANCIAL AID AWARDS AND GRANTS

Approved Title IV aid is paid on account approximately six weeks from the first day of the semester. Aid awarded after the first day will be paid monthly thereafter. Loan checks are credited upon endorsement or when funds are electronically received.

REFUND ALLOCATION POLICY

The University must return Title IV aid to the various programs in the following order when a student withdraws having received financial aid in excess of adjusted charges.

1) Federal Unsubsidized Stafford Loan
2) Federal Subsidized Stafford Loan
3) Federal Plus Loan
4) Federal Perkins Loan
5) Federal Pell Grant
6) Federal SEOG

Refunds allocated to a particular program will not exceed the aid originally awarded to a student in that particular program.

REPAYMENT ALLOCATION POLICY

In keeping with new federal regulations, Mansfield University will return Title IV repayments to the appropriate programs in the following manner:

1) Federal Perkins Loan
2) Federal Pell Grant
3) Federal SEOG Grant

Under no circumstances will the amount allocated to a particular program be more than the amount you received from that program.

INSTITUTIONAL AID PRIORITY POLICY

Mansfield University will apply financial aid to cover institutional charges in the following order:

1) Scholarships (including Athletic Grants)
2) State Grants
3) Federal Scholarship (Robert Byrd Scholarship)
4) Federal Pell Grant
5) Federal SEOG Grant
6) Tuition/Fee Waivers (Not to include R.A. or room job positions where students are receiving payment for different services performed for the university.)
7) Federal Perkins Loan
8) Federal Stafford Loan
9) Federal Unsubsidized Stafford Loan
10) Federal PLUS Loan

MANSFIELD UNIVERSITY SCHOLARSHIPS AND AWARDS

THE AFSCME SCHOLARSHIP: The AFSCME Scholarship is supported by grants from the local unit of AFSCME and the Mansfield University Foundation, Inc. The award is $1000 per academic year. Non-renewable. You must be full-time, matriculated, have completed 12 S.H. with a 2.5 GPA and have financial need. Preference will be given to a local 2363 bargaining unit employee, dependent or spouse. The recipient is selected by the Scholarship Committee.

THE ALL RESIDENCE HALL COUNCIL SCHOLARSHIP: The All Residence Hall Council Scholarships are supported by grants from the All Residence Hall Council and the Mansfield University Foundation, Inc. The amount of each award is $500(2) for the academic year. The award is given to a student who is currently enrolled at Mansfield University. The recipient is selected by the Scholarship Committee. Non-renewable.

AMERICAN CHEMICAL SOCIETY, CORNING SECTION STUDENT AWARD: Recognition on a plaque located in Grant Science Center to a graduating senior of high academic achievement.

AMERICAN INSTITUTE OF CHEMISTS STUDENT AWARD: A one-year associate membership in American Institute of Chemists and recognition on a plaque in Grant Science Center to a graduating senior of high academic achievement.

THE APSCUF SCHOLARSHIP: The APSCUF Scholarship is supported by grants from the local chapter of APSCUF and the Mansfield University Foundation, Inc. The award is $1500 for the academic year. A committee of APSCUF members review the applications and forward their recommendations to the Scholarship Committee for final selection. The award is given to a student currently enrolled at Mansfield University. Non-renewable.

JANICE BAKER AWARD: A $100 award given in memory of Janice Baker, an outstanding female voice graduate of Mansfield University. The recipient is chosen by the voice faculty.

THE BARTELL SCHOLARSHIP: The Rhoda Bartell Music Award is a $500 award to an entering student with a double-reed major. You must be full-time and maintain 2.5 QPA Non-renewable. Selected by Music Department Scholarship Committee upon the recommendation of the double-reed professor.

THE BAUMAN-STAHLEY SCHOLARSHIP: The Bauman-Stahley Scholarship is supported by the income from a trust fund created by Marguerite Bauman '35 and Margaret B. Stahley. The award is $250 per academic year. Non-renewable. The General Scholarship Guidelines are used to select the recipient.

JOHN BAYNES STRING SCHOLARSHIP: Given in honor of Dr. John H. Baynes, former chairman of the Music Department, to an outstanding string major. The recipient is chosen by the string faculty.

BIOLOGY OUTSTANDING MAJOR AWARD: The Commonwealth of Pennsylvania University Biologists annually recognize the most outstanding biology major from Mansfield University at its annual meeting held on the campus of one of the 14 S.S.H.E. Universities. The award includes a trip to the annual meeting, the presentation of the personal certification at the meeting banquet, and a certificate for display in Grant Science Center.

THE BLOSSBURG NATIONAL BANK SCHOLARSHIP: The Blossburg Bank Scholarships are supported by the income from a trust fund created by that bank. Two (2) $400/year awards are given to students of North Penn High School who attend Mansfield University. The applications are reviewed by a faculty committee at North Penn.

That committee's recommendations are forwarded to the Scholarship Committee for final selection. It is intended that the awards will be renewed for each of the student's four college years. Renewable.

THE BOARD OF GOVERNORS SCHOLARSHIP: The Board of Governors Scholarships were created by the State System of Higher Education. A number of awards granting a waiver of tuition will be awarded after all other forms of aid have been received for the academic year. These scholarships may be renewed for each of the student's four years if the student maintains the required grade point average. The Board of Governors Scholarship guidelines will be used to select recipients.

THE BONE SCHOLARSHIP: The Dr. Margaretta Bone Scholarship is supported by income from a trust fund created by Dr. Margaretta Bone. The award is $1000 to a freshman, and the successful student will receive a $1000 award for enrollment their subsequent three years. Renewable. The Education Department will make recommendations for this award to the Scholarship Committee.

BROADCASTING AWARD: One award from the New York Academy of Television Arts and Sciences.

THE COLEGROVE SCHOLARSHIPS: The Colegrove Scholarships are supported by the income from a trust fund created by H.W. Colegrove. Two (2) $750/year grants are given to women students who are residents of Tioga County, PA. This scholarship is awarded for each of the student's four years. Renewable. The General Scholarship Guidelines are used to select the recipient.

THE CRISPELL SCHOLARSHIP: The Albert Crispell Scholarship is a $175 award supported by an agreement between the family of Albert Crispell and the Mansfield Foundation for an upcoming senior Elementary Education major from Bucks, Luzerne or Wyoming Counties. A committee of Education Faculty will review applications and forward their recommendation to the Scholarship Committee. Award will be paid directly to the Campus Bookstore to help offset book and supply expenses. Non-renewable.

COLLEGE COMMUNITY SERVICES, INC. BOOK SCHOLARSHIPS: Four (4) $250 scholarships will be provided in the form of credit for books at the bookstore. Students must be full-time, have financial need, 2.8 QPA, and be involved in extra-curricular activities.

THE DARRIN SCHOLARSHIP: The Charles V. Darrin Scholarship, in memory of David D. Dye, is funded by the income from a trust created by Dr. Darrin '34. The award is $500 per academic year and is given to a student who is accepted as a music major. Non-renewable. The General Scholarship Guidelines are used to select the recipient.

THE DEAN SCHOLARSHIP: The Hartley B. Dean Scholarships of $1000 are funded by the income from a trust created by Hartley B. Dean '18. Renewable. The Hartley B. Dean Scholarship Guidelines are used to implement the awards.

THE DAVID J. DICK MEMORIAL AWARD: A $750 award to an outstanding junior or senior of outstanding conducting or vocal performance. Non-renewable. Selected by the Music Department Scholarship Committee.

MANSFIELD UNIVERSITY DINING SERVICES SCHOLARSHIPS: Two (2) full meal plan scholarships for the academic year will be awarded. Students must be full-time, have financial need, 2.8 QPA, and be involved in campus organization/service activities.

THE DOUD SCHOLARSHIP: The Howard R. and Margaret Bellows Doud Scholarship is awarded to a freshman Music major. The amount of the award is $5000. To be considered for any additional awards, a 3.0 QPA must be maintained. Selection will be made by the Music Department. Scholarship to be given once every 4 years.

THE HENRY DYCK BOOK AWARD: Awarded annually to a student who demonstrates the highest academic achievement in English 226, The History of the English Languages.

EVANS-SABOL AWARD: Nancy Evans-Sabol was a talented young teacher —like many members of her family, a graduate and friend of Mansfield University. In her memory her family gives an award of $100 to the graduating secondary education student with the highest point average as recorded the semester prior to student teaching.

PATTY FOX AWARD: This award was founded in memory of a former Mansfield University Music Education student. The recipient must be the junior Music Education major with the highest cumulative average having completed 64 semester hours. Transfer students are not eligible.

ANDREW FRANK AWARD: Andrew Frank was a Mansfield Education major who maintained his morale and courage throughout his college years despite a debilitating illness. This $50 award is presented by his family and friends to the graduating education student who, in the judgement of the faculty, has overcome adversity to achieve a college education.

THE FRICK WEAVER SCHOLARSHIP: The Gladys Frick Weaver award is supported through a trust to recognize and reward a currently enrolled Nursing student who has successfully completed 6 semesters of course work at Mansfield. The award is $1000 annually and the General Scholarship application needs to be completed and returned. Applications will be forwarded to Nursing faculty for final selection.

THE GARRITY COMMUNICATIONS AND THEATRE FACULTY SCHOLARSHIP: The Arlyne V. Garrity scholarships are supported by a trust fund created by Harold W. Garrity. There are two $500 awards for upperclassmen majoring in Communication or Theatre who have earned at least 32 credits. Non-renewable. A committee from the Communication and Theatre Department will make recommendations to the Scholarship Committee.

THE OLIVER AND LOUISE GEORGE AWARD: is $200 per academic year. The recipient will be selected by the Mansfield University Scholarship Committee based on need and academic standing with first preference to a Black American with science major, then second preference to a Chemistry major, then third preference to a science major, and lastly a freshman with SAT's 1,000 or more or an upperclassman with a 2.5 overall QPA and a 2.5 QPA in sciences. Non-renewable. Students may reapply every year. The award shall be paid directly to the student.

THE GSE SCHOLARSHIP: A $1000 scholarship supported by a grant from an anonymous donor. The recipient must be a Music major. Non-renewable. The chairperson of the Music Department will make a recommendation for this award to the Scholarship Committee.

THE HALLORAN MEMORIAL SCHOLARSHIP: The Howard Halloran Memorial Scholarship is supported by income from a trust created by Thomas Halloran '55. The award is in the amount of $1000 for the year. Preference in awarding the scholarship will be given to a resident of Potter County who has financial need. If no qualified applicant from Potter County is available preference will be given to a student meeting the General Scholarship Guidelines who has financial need. Non-renewable.

THE HALLORAN SCHOLARSHIP: The Thomas and John Halloran Scholarship is supported by income from a trust fund created by Thomas Halloran '55. An award of $500 per year for four years will be given. Preference in awarding the scholarship will be given to residents of Potter County who have financial need. If no qualified applicant from Potter County is found, preference will be given to a student who meets the General Scholarship Guidelines who has financial need. This is a renewable scholarship for four years.

THE HONORS PROGRAM SCHOLARSHIP: The Honors Program Scholarship is supported through the Mansfield University Foundation by individuals who contributed to the general scholarship fund. Four $500/year awards will be given. The recipients must be continuing students in the Honors Program with good academic standing. Faculty members of the Honors Council will forward recommendations to the Scholarship Committee. Non-renewable.

THE HOWLAND SCHOLARSHIP: The Mike Howland Scholarship is supported by a grant made by the Mansfield Alumni Association and individuals who contribute to the general scholarship fund. The award is in the amount of $1000 per academic year. The scholarship usually is given to a student who resides in Tioga County, PA. Non-renewable. The General Scholarship Guidelines are used to select the recipient.

THE MARTIN LUTHER KING Jr. SCHOLARSHIP: The Martin Luther King, Jr. Scholarship is supported through the Mansfield University Foundation by individuals who contributed to the general scholarship fund. The award is $1000 for the academic year. Non-renewable. The General Scholarship Guidelines are used to select a black freshman as the recipient.

THE KREUSCHER SCHOLARSHIP: The Jean Strynski Kreuscher Scholarships are supported through income from a trust fund created by Jean Strynski Kreuscher '27. Several $1000 awards and several $500 awards will be given for the academic year. Awards will be made to current music majors and students who have been accepted for enrollment as Music majors. The number of awards will be determined annually. Total $6000. Non-renewable. A committee of Music faculty will review applicants and forward recommendations to the Scholarship Committee for final selection.

THE LLOYD MEMORIAL SCHOLARSHIP: The S. Manford Lloyd scholarship is a four year award of $1200 per year for a freshman math major with strong academic credentials. Only one student will receive this scholarship at a time, therefore, the scholarship will only be offered once every four years. Renewable. The Math Department will make a recommendation to the Scholarship Committee.

THE MANSFIELD UNIVERSITY FOUNDATION, INC. SCHOLARSHIPS: These scholarships are supported by a grant made by the Mansfield Alumni Association and individuals who contributed to the general scholarship fund. The number of awards varies from year to year. Scholarships are $1000 per academic year. Non-renewable. The General Scholarship Guidelines are used to select the recipients.

THE MARCH SCHOLARSHIP: The Jonathan G. March Scholarship is supported by the income from a trust fund created by James White '49. The award is $1000 per academic year. The recipient should be an incoming student from Tioga County, PA. The student selected for the award is to be distinguished more by effort and commitment to higher education goals than by past academic achievement. Non-renewable.

THE McINROY ASSOCIATION SCHOLARSHIP: The Edward McInroy Scholarship is supported by the income from a trust fund created by the Edward McInroy Association. The award is $1000. The recipient should be an incoming student from Tioga County, PA. The student selected for the award is to be distinguished more by effort and commitment to higher education goals than by past academic achievement. Non-renewable.

THE WARREN L. MILLER SCHOLARSHIP: The Warren L. Miller Scholarship is supported by grants made by Dr. Mildred Menge Miller and the Mansfield Foundation. The award is $1200 per academic year. Non-renewable. The General Scholarship Guidelines are used to select the recipient.

THE MITCHELL SCHOLARSHIP: The P.D. Mitchell Scholarship is supported by a grant made by Beta Rho Omicron fraternity and individuals who contribute to the general scholarship fund. The award is $1000 for the academic year. It is given to a black student who is a junior or senior and has financial need. Non-renewable.

MUSIC DEPARTMENT FRESHMAN AWARDS: Awards are based on talent without regard to financial need. Candidates must have been accepted by the University and the Music Department and have SAT scores of 800 or more.

MUSIC DEPARTMENT UPPERCLASS AWARD: The award is based on an audition before the Music Department faculty. The applicant must have completed 32 s.h. and maintain a QPA of at least 2.5. Since the recipient receives one-half of the cash award during each of the two following semesters, a minimum of 2.5 must be maintained throughout the academic year.

NATIONAL ASSOCIATION OF MUSIC MERCHANDISING AWARDS: Two $500 awards are presented to senior students with the highest QPA in the music merchandising curriculum.

THE NAUMAN SCHOLARSHIP: The Stanley Henry Nauman Scholarship is a $200 award supported by an agreement between Ernest and Lynn Petty Bush and the Mansfield Foundation for a currently enrolled undergraduate student in the Wildlife and/or Fisheries program. A committee of biology faculty will review applications and forward their recommendation to the Scholarship Committee. Non-renewable.

THE PHI DELTA KAPPA SCHOLARSHIP: The Phi Delta Kappa Scholarship is supported by the income from a trust fund created by the Mansfield Chapter of Phi Delta Kappa, Professional Education Fraternity. The award is $750. The recipient is selected from applicants currently enrolled in a teacher preparation program. Non-renewable. The recommendation of a recipient is made by a committee from Phi Delta Kappa, and forwarded to the Scholarship Committee.

THE POWELL SCHOLARSHIP: The Maryon Farrer Powell Scholarship is a $1000 award for a student majoring in dietetics. The recipient can either be an entering or returning student who demonstrates strong academic ability and has financial need. Non-renewable. The General Scholarship Guidelines are used to select the recipient.

THE PRESSER SCHOLARSHIP: The Presser Scholarship is supported by grants from the Presser Foundation and the Mansfield University Foundation, Inc. The award is $2250 for the academic year. A committee of music faculty members review the applications and forward their recommendations to the Scholarship Committee for final selection. The award is to be given to a senior student currently enrolled as a Music major. Non-renewable.

RHINO AWARD: One award given for contributions to the Theatre.

SAI/SCHMITZ AWARD: Founded in memory of Dr. Sylvester Schmitz, a former Music Department chairman and Dean of Fine Arts. This $50 award is given to a junior or senior BM in performance major with at least a 2.5 QPA who has demonstrated excellence in performance, composition, and/or scholarly research.

THE SCHIPBANKER SCHOLARSHIP: The Elinor Schipbanker Scholarship is supported by the income from a trust fund created by Elinor Schipbanker '20. The amount of the award is $750 per academic year. The award is given to a student who is accepted as an Art major. Non-renewable. The General Scholarship Guidelines are used to select the recipient.

RICHARD SWARTZ AWARD: A $150 award given in memory of Richard Swartz, a bassoon major in the Class of 1981. The award is given to an outstanding double reed major.

THE SLABEY SCHOLARSHIP: The Slabey Award is supported by grants made by Dr. Mary Robinson-Slabey. It is a $4000 per academic year award for a Computer Science or Information Science major from St. Lucia. A committee of educators in St. Lucia will forward recommendations to the Scholarship Committee.

THE UNIVERSITY SENATE SCHOLARSHIP: The University Senate Scholarship is supported by grants from the University Senate and the Mansfield University Foundation, Inc. The amount of the award is $1500 per academic year. The recipient is selected from among applicants currently enrolled at Mansfield University. Non-renewable

THE SAM DEE THOMAS OUTSTANDING PAINTING AWARD: Given for oil painting or waterbase media.

THE TIADAGHTON AUDUBON SOCIETY MEMORIAL ENVIRONMENTAL AWARD: A competitive cash grant for one or more promising biology students to conduct independent research in disciplines related to the environment or organisms living in natural ecosystems. The award is made in memory of noted Wellsboro environmentalist Forest Watkins, and former Mansfield Biology professor, Dr. Charles Weed.

THE GLADYS FRICK WEAVER AWARD: This scholarship is awarded to senior nursing student who demonstrates outstanding professionalism and displays extraordinary nursing skills, abilities and interest in bedside nursing.

THE WRIGHT SCHOLARSHIP: The Mildred Packard Wright Scholarship is a four-year award of $1000 to an incoming freshman once every four years in a mathematics related major. Preference for the award will be given to a student from Troy, Canton, or Bradford County, PA

MU

ACADEMIC POLICIES

The university reserves the right to make changes in curricula, degree requirements, course offerings, and all academic regulations at any time when, in the judgement of the faculty, the President, and Council of Trustees, such changes are in the best interest of the students and the university. University policy procedures can be found in the student handbook, The Password.

Academic Integrity

Students are expected to do their own academic work. Dishonesty in academic work in any of its forms, including cheating, academic misconduct, fabrication, and plagiarism, is unacceptable. Faculty are expected to instruct students in ways of avoiding these forms of academic dishonesty. Faculty are also responsible for assessing and reporting all charges of academic dishonesty to the Provost/Vice President for Academic Affairs. The student handbook, *The Password*, outlines the procedures faculty will use to initiate disciplinary action in cases of academic dishonesty.

Faculty are responsible for informing students of course evaluation criteria, for adherence to the stated criteria, and for determining grades in a fair and equitable manner. If a student charges that a faculty member has discharged professional duties in an improper, arbitrary, discriminatory, or otherwise unjustified manner, complaints may be properly considered by means of the procedures outlined in the student handbook, *The Password*.

GRADUATION REQUIREMENTS

It is the student's responsibility to know the university requirements for graduation and those of their major.

To graduate from Mansfield University with an **associate degree**, a student must meet the following requirements.

(1) Earn the minimum number of credit hours for the particular major.
(2) Earn a minimum 2.0 cumulative quality point average (QPA) in all work attempted and in the major.
(3) Complete requirements for the major and the degree.

To graduate from Mansfield University with a **baccalaureate degree**, a student must meet the following requirements.

(1) Earn the minimum number of credit hours for the particular major, plus any required preparatory (090) courses. Preparatory (090) courses completed increase the total number of credit hours required for graduation.
(2) Earn a minimum 2.0 cumulative quality point average[1] (QPA) in all work attempted and in the major.
(3) Complete requirements for general education and for the major.
(4) Complete 40% of the credits required for a degree at the 300-400 level.
(5) Complete the Writing Across the Curriculum program.
(6) Complete a second year language proficiency or minor for a B.A. degree.

To graduate from Mansfield University with **teacher certification** a student must meet the following requirements.

(1) Earn a minimum 2.5 cumulative quality point average (QPA) in all work attempted.
(2) Complete a teacher preparation certification program approved by the Pennsylvania Department of Education.
(3) Complete all requirements for a baccalaureate degree.
(4) Pass the National Teachers Examination (NTE) Core Battery and Specialty Area tests. Contact the university Certification Officer, Retan Center or Testing Officer, South Hall for NTE information.

(5) Students may earn a teaching degree with less than a 2.5 QPA, but the university will not recommend them to the Pennsylvania Department of Education for certification.

Some programs and majors have degree requirements in addition to the university graduation requirements. Students should consult their departmental advisor for such requirements.

No student may be granted an associate degree from the university without a minimum residency of fifteen (15) credit hours earned from Mansfield.

No student may be granted a baccalaureate degree from the university without a minimum residency of one year (32 credit hours earned from Mansfield). Minimum residency means the senior year (the last 32 credit hours) is taken through the university; exceptions may be made with approval from the Office of The Provost. Transfer credit may be awarded for up to 50% of the major requirements including major-related electives. If the remaining credits do not meet MU guidelines for general education, they will be applied as free electives.

Students receive a "Graduation Outlook" form upon completion of eighty (80) credit hours. The "Graduation Outlook" notes courses and/or requirements still necessary to be completed for graduation including any deficiency in the cumulative quality point average (QPA) in all work attempted and in the major. Students who are accelerating may request an "Outlook" earlier through the Academic Records Office.

Preparatory (090) Courses

Students entering Mansfield University will be evaluated in the areas of mathematics, study skills, and written communication in order to assure a minimal level of competency. In mathematics a student's previous preparation is assessed. A student's SAT verbal score is used to determine whether or not ED 090 is required. A writing placement examination is administered to all entering students, and placement will be made in ENG 090 or ENG 112 W on the basis of their performance on that essay.

If 090 courses are necessary, the minimum number of credits required for graduation could increase. Students required to take ED 090 will be scheduled for the course in one of their first two regular semesters, and once placed in the course, the course cannot be dropped. Academic policy requires that any 090 courses be taken during the first 57 credit hours attempted.

Writing Across The Curriculum (WAC)

Writing Across the Curriculum requirements are satisfied by completing ENG 112W, ENG 313W, and three writing-designated (W) courses (at least one of which must be an upper-level course). The WAC program helps students to become comfortable and competent writers through assignments in designated writing courses which require different conventions of purpose and audience, different formats and styles, and different kinds of writing as it is done in various disciplines. These writing courses are drawn from all areas of the curriculum and involve students in regular, frequent writing, much of which the instructor responds to.

First time freshmen and transfer students will have their WAC requirements determined on the basis of total credits accumulated prior to matriculation. Readmits who are out for more than one semester will have their WAC requirements determined on the basis of total credits accumulated prior to breaking matriculation.

GENERAL EDUCATION

Philosophy

The objective of the general education component of an undergraduate degree is to provide students with a foundation for lifelong learning and to enable them as responsible citizens to cope with a rapidly changing world.

General Education is designed, therefore, to enable students to continue to learn independently of formal classroom instruction. It extends throughout the undergraduate experience and into campus and community life. General Education is designed to encourage students to develop their abilities to observe, analyze and resolve problems, essential skills in a pluralistic and global environment. Finally, General Education makes students aware of the concept of ethical and moral responsibility to self and to society.

General Education complements major course work and assists students in taking their proper place in society by helping them comprehend humankind: its cultures and history, the philosophies by which it lives, the means by which it communicates, and the arts and sciences which better its existence.

Program Overview

There are three types of courses in General Education: Core, Distribution Requirements, and General Education Electives.

Core Courses

Core courses are those so important to the education of all students that they are required of every undergraduate student attending the university in a Bachelor's Degree Program. These include English Composition, Oral Communication, Introduction to one of the Fine Arts, and Health and Physical Education courses as follows:

COMMUNICATION SKILLS (9 credits)

Com	101	Oral Communication (3)
*Eng	112W	Composition I (3)
**Eng	313W	Composition/Literature II (3)

HEALTH AND PHYSICAL EDUCATION (3 credits)

HPE	100	Health (2)
#HPE	101-199	Physical Education (1-3)

FINE ARTS (3 credits)

ARH	101	Introduction to Art (3)
MU	100	Introduction to Music (3)
THT	110	Introduction to Theater (3)

*All students should take ENG 112W (and ENG 090 if necessary) during their first year. Transfer students who have already taken a year of composition will receive credit for ENG 112W and for electives.

**ENG 313W must be passed with a grade of "C-" or better.

#Nursing degree students must be currently CPR certified or complete HPE 164 when attempting to complete the health and physical education requirement.

Distribution Requirements

General Education Distribution Requirements are satisfied by taking basic courses in the Liberal Arts and Sciences Disciplines.

GROUP I, HUMANITIES (MINIMUM 9 CREDITS)

CDN	101	Intro to Canada (3)
ENG	100	Intro to Women's Studies (3)
ENG	115	Intro to Literature (3)
ENG	203	Readings in Ancient Literature (3)

ENG	204	Readings in World Literature (3)
ENG	207	Readings in British Literature (3)
ENG	208	Readings in American Literature (3)
ENG	220	Special Topics in Literature (3)
ENG	225	English Grammar (3)
ENG	226	History of the English Language (3)
ENG	305	Comparative Literature (3)
HST	101	Western Civilization I (3)
HST	102	Western Civilization II (3)
HST	104	The World in The 20th Century (3)
HST	201	American History through Civil War (3)
HST	202	American History - Reconstruction to Present (3)
PHL	201	Introduction to Philosophy (3)
PHL	202	Contemporary Moral Problems (3)
PHL	230	Introduction to Logic (3)
PHL	280	Philosophy of Religion (3)
PHL	300	Philosophy of the Arts (3)
PHL	340	Ethics (3)

GROUP II, FOREIGN LANGUAGES (MINIMUM 6 CREDITS IN ONE LANGUAGE)

Any course offered by the Foreign Language Department will satisfy this requirement.

GROUP III, NATURAL SCIENCES (MINIMUM 9 CREDITS)

AST	105	Exploration of the Solar System (3)
AST	106	One Possible Universe (3)
AST	108	Observing the Autumn Sky (1)
AST	109	Observing the Winter Sky (1)
AST	110	Observing the Spring Sky (1)
AST	111	Observing the Summer Sky (1)
BI	110	Zoology (4)
BI	130	Botany (4)
BSC	101	General Biology/ Zoology (4)
BSC	102	Contemporary Biological Problems (3)
CHM	101	Introductory Chemistry (4)
CHM	102	Organic and Biochemistry (4)
CHM	103	Chemistry and The Environment (4)
CHM	110	Survey of Chemistry (4)
CHM	111	General Chemistry I (4)
CHM	112	General Chemistry II (4)
GEL	102	Environmental Geology (3)
GEL	121	Physical Geology (3)
GEL	122	Historical Geology (3)
PHY	151	Conceptual Physics I (4)
PHY	152	Conceptual Physics II (4)
PHY	191	Physics I (4)
PHY	210	General Physics I (4)
PHY	211	General Physics II (4)

GROUP IV, MATHEMATICS (MINIMUM 6 CREDITS)

Any course offered by the Mathematics Department will satisfy this requirement. (except MA 104)

GROUP V, SOCIAL SCIENCE (MINIMUM 9 CREDITS)

ANH	101	Cultural Anthropology (3)
ANH	102	Human Origins and Evolution (3)
ECO	101	Principles of Macroeconomics (3)
ECO	102	Principles of Microeconomics (3)
ECO	204	History of Economic Thought (3)
ECO	205	Contemporary Economic Problems (3)
GEG	101	World Regional Geography (3)
GEG	102	Human Geography (3)
GEG	111	Physical Geography (3)
GEG	222	Environmental Issues (3)
PSC	100	Introduction to Politics (3)
PSC	101	American Politics (3)
PSC	102	State and Local Politics (3)
PSC	210	World Politics (3)
PSC	212	Comparative Politics (3)
PSY	101	Introduction to General Psychology (3)
PSY	210	Psychology of Family Relations (3)
PSY	212	Human Sexuality (3)
PSY	290	Life Span Development (3)
SOC	101	Introduction to Sociology (3)
SOC	121	Contemporary Social Problems (3)
SOC	232	American Family Systems (3)

General Education Electives

Students may select any course, regardless of level (100-400), from the same disciplines approved for Distribution Requirements (Groups I - V). Such courses allow the student to go beyond the introductory level in a Liberal Arts area should he/she choose to do so. In addition, any Art History (ARH), Art (ART), Communications (COM), Music (MU), Theatre (THT), or Women's Studies (WS) course may also be used as a general education elective.

Professional Elective (One Course)

A group of introductory courses in certain professional departments are approved as an acceptable General Education Elective. This permits the student to investigate one professional program as a possible major or minor within General Education. If this area is then selected as a major, the course must be replaced with another General Education or Professional course. One approved Professional Course may be selected from the following:

BFC	317	Fish Management (3)
BUS	130	Introduction to Business and Management (3)
CIS	103	Introduction to Microcomputers (3)
CJA	100	Introduction to the Administration of Criminal Justice (3)
DIT	101	Personal Nutrition
*ED	100	Schools & Society (3)
RPL	102	Introduction to Regional Planning (3)
SPE	101	Exceptional Persons in Society (3)
SWK	101	Human Services (3)
TRT	102	Introduction to Travel Tourism (3)

*Any student enrolled in a program leading to teaching certification may not take ED 100 as a Professional Elective for General Education Electives.

Special Rules

The following special rules govern the General Education Program:

1. Students must satisfy the minimum requirements in four out of five Groups listed under Distribution Requirements.
2. A maximum of six credits from the major discipline may be used to fulfill Distribution Requirements (Groups I - V) and General Education Electives. Professional courses are excluded except under special rule #9.
3. No more than two courses with the same prefix may be used to complete any Group Distribution Requirement (Group I-V). A maximum of 12 credits with the same prefix may be used to complete distribution requirements including General Education Electives.
4. A maximum of 18 credits from approved courses or disciplines from one Group (Groups I, III or V) may be used to meet Distribution Requirements and General Education Electives. For example, 12 credits in Group I and 6 credits from the same discipline used in the General Education Elective area is the maximum allowed in a Humanities discipline. In the case of Groups II and IV, only 12 credits are permitted.
5. Courses from disciplines approved for Distribution Requirements (Groups), may be used as General Education Electives except MA 090 and 104.
6. A minimum of 24 credits in Distribution Requirements (Groups) is required for Bachelor of Music degree programs, forty one (41) credits in Distribution Requirements (Groups) and General Education Electives is required for the Bachelor of Science in Nursing program, and forty two (42) credits in Distribution Requirements (Groups) and General Education Electives is required for all other Bachelor degrees.
7. Six credits in a single language is required when completing Group II, Foreign Language.
8. Physically disabled students may complete the HPE 101-199 requirement by special arrangement.
9. One Professional Elective is allowed from those approved. However, it must be replaced should the student subsequently choose to major in that field.

INDEPENDENT STUDY/INDIVIDUALIZED INSTRUCTION

Independent Study is available in each curricular field. The appropriate curricular prefix precedes the course number 497, and the credit hours vary from 1 to 3. Independent Study may be repeated for more than 3 credit hours total, but each Independent Study project may be for no more than 3 credit hours.

Independent Study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field.

To register for Independent Study, a student prepares a contract (available at the Academic Records Office) which must be approved by the faculty director, department chairperson and Provost. Independent Study procedures must be completed before the beginning of the semester or summer session for which the Independent Study is sought.

Independent Study is distinguished from Individualized Instruction (II) the latter of which is available to students on a restricted basis. Ordinarily permission to take a course by Individualized Instruction is reserved for students who are close to graduation and who have not been able to meet a degree requirement either because the course has not been available or because of some other mitigating circumstance.

To register to take a course by Individualized Instruction, a student prepares an Independent Study form (available at the Academic Records Office) which must be approved by a faculty director, department chairperson, and the Provost.

Add/Drop

Students may ADD a course during the first seven working days of a semester and DROP a course during the first five working days of a semester. In Continuing Education, the add period will be the first ten days of a semester. The only signature necessary on add/drop cards is the class instructor's. Add/Drop cards are available in the Academic Records Office.

Course Load

A normal academic course load is defined as 12 to 18 credit hours. If you want to schedule more than 18 credit hours, you must have a 3.0 cumulative point average (QPA). If you do not have a 3.0 QPA, you must submit a "Petition to the Faculty" form to the Provost, Vice President for Academic Affairs for permission.

Students registered for fewer than 12 credit hours are not eligible to live in campus residence halls without special permission from the Vice President for Student Affairs or designee.

GRADING

Professors will provide to students a written syllabus prior to the end of the first week of class which will include the criteria for academic evaluation. Mansfield University employs a 4-point grading scale, as shown below, in evaluating academic performance

GRADES	INTERPRETATION	QUALITY POINTS
A	Excellent	4.0
A-		3.7
B+		3.3
B	Above Average	3.0
B-		2.7
C+		2.3
C	Good Standing	2.0
C-		1.7
D+		1.3
D	Minimally Passing	1.0
D-		0.7
F	Failure	0.0

The following designations may be used in addition to the grades shown above:

AU	-	Audit
EX	-	Credit by Examination (D- grade or better)
I	-	Incomplete
P/F	-	Pass/Fail (D- grade or better)
S	-	Satisfactory (D- grade or better)
U	-	Unsatisfactory
W	-	Withdrawal from a course after the drop period

The cumulative quality point average (QPA) is determined by dividing the total number of quality points earned by the total number of credit hours of work attempted. The cumulative QPA is the index by which a student's academic standing is judged.

Audit (AU)

Students interested in auditing a course (attending class, but receiving no grade or credits) must submit the Audit Form before the end of the Add Period (first seven working days of the semester). The Audit Form is available in the Academic Records Office, South Hall.

Incomplete (I)

An "I" (Incomplete) grade is used to denote unfinished work because of serious mitigating circumstances beyond the student's control. It is a privilege granted because of circumstances, not a right to be expected by the student.

The "I" will be awarded by professors, at their discretion, and will be submitted on the grade report form at the end of the semester. The professor and the student will negotiate the specific requirements to be satisfied in order to convert the "I" to a letter grade. The student is responsible for the removal of an "I" grade within the first three weeks of the following semester in which the "I" grade was given except in cases where further serious circumstances prevail and a request for an extension is made by the faculty member to the Academic Records Office. If the "I" grade is not cleared within the allotted time period, a final grade of "F" will be recorded.

Pass/Fail (*P or *F)

Students may take a total of eight courses pass/fail; however, no more than one course each semester may be taken under the pass/fail option. **Pass/Fail credits are not reflected in the student's QPA, however, a passing (*P) grade is counted as credit hours earned.** Students may elect the pass/fail option during the first seven working days of the semester. They may neither change the pass/fail option to a letter grade nor select the pass/fail option after the first seven working days of the semester. A passing grade is "D-" or better, and three failures under this option will constitute a loss of the option. Pass/Fail application forms are available in the Academic Records Office. The following restrictions apply:

1. 100 or 200 level courses MAY NOT be taken pass/fail to fulfill General Education Core, Distribution Requirements or General Education Electives.
2. Any 100 or 200 level course taken pass/fail will count ONLY as a free elective.
3. Courses required by the major department may be included in the pass/fail option at the discretion of that department, require the chairperson's signature, and MAY NOT be counted for General Education credit.

Withdraw from a Course (W)

After the drop period, students may withdraw from a course until 4 p.m. the Friday of the tenth week of classes by contacting the course instructor. A "W" will be recorded in the permanent record and will not be calculated in the quality point average (QPA). A student who withdraws from all courses will automatically be withdrawn from the University.

Repeating a Course

When you repeat a course which cannot be repeated for credit then (1) all grades received shall be included on your permanent record, but (2) only the last grade received shall be used in computing your cumulative quality point average (QPA).

If you fail a course, you may not repeat it on a pass/fail or credit-by-exam basis. If you fail a course that can be repeated, for credit you should notify the Academic Records Office.

Grade Change

If an error in the final grade given a student requires that the instructor change the grade, such a change must be made within the first three weeks of the following semester. Grade changes will not be allowed after that time unless a request for an extension was made by the faculty member to the Academic Records Office.

Due Process (Appealing a Grade)

If students wish to appeal a grade, they should refer to the procedures outlined in The Password.

Minimum Academic Standards

All matriculated students, except first semester transfers, seeking an undergraduate degree must meet the minimum academic standards of the institution. The following is the minimum academic requirements for continuation at Mansfield.

0-18 credit hours attempted - 1.00 QPA
19-37 credit hours attempted - 1.60 QPA
38-56 credit hours attempted - 1.80 QPA
57+ credit hours attempted - 2.00 QPA

Transfer students are subject to academic dismissal after their first semester only if their QPA is less than 1.00. Thereafter, they are subject to the above standards as are all other matriculated undergraduates. Credit hours attempted include transferred credit hours.

Academic Dismissal

A matriculated student whose cumulative quality point average (QPA) is below the minimum academic requirement (see Minimum Academic Standards) at the end of a semester will be dismissed from Mansfield.

The determination of the minimum academic requirement includes courses accepted in transfer and courses attempted at Mansfield.

Students dismissed may be reinstated to the university after a one year interval or may appeal to the Academic Standards Review Board (ASRB). Second or subsequent dismissals automatically terminate their association with Mansfield.

Academic Probation

A matriculated student whose cumulative quality point average (QPA) is between the minimum academic standard (see Minimum Academic Standards) and 2.00 at the end of a semester will be placed on academic probation until the QPA is 2.00 or above.

Probationary status does not mean that a student is dismissed from the university. It means that although the minimum academic requirements have been met, the QPA is not acceptable for graduation. If a student is on probation, they will receive a letter from the university informing them of their probationary status and subsequent assignment to the Academic Advising Center, South Hall.

With the assistance of an advisor, students should develop strategies for improvement and be made aware of available academic support services.

Dean's List and President's List

The **Dean's List** is issued at the close of each semester. It includes only undergraduate students. Students must earn at least 12 credits for which a letter grade is received (P/F and S/U grades are excluded). The semester quality point average (QPA) must be between 3.50 and 3.99 inclusive.

The **President's List** is also issued at the close of each semester. It includes students who fulfill the above requirements and attain a semester quality point average (QPA) of 4.00.

Commencement Honors

Superior scholastic achievement is recognized at Commencement. **Students must have completed at least 64 credit hours at Mansfield University prior to their final semester to receive honors recognition at Commencement**. Honors designations are based on cumulative quality point average (QPA) as indicated:

Cum Laude	3.35 to 3.64
Magna Cum Laude	3.65 to 3.94
Summa Cum Laude	3.50 to 4.00

Students who meet the honors requirements upon completion of their final semester will have such recognition noted on their permanent record.

Intent to Graduate

Candidates for the Associate Degree or Bachelors Degree must complete the "Intent to Graduate" form available in the Academic Records Office, South Hall.

Students are encouraged to participate in the graduation exercise which recognize and honor their academic accomplishments.

ALTERNATIVES TO TRADITIONAL STUDY EXPERIENCES

Advanced Placement (AP)

Mansfield accepts high school courses taken prior to admission to the university under the national Advanced Placement (AP) program. A minimum score of 3 on the qualifying examinations is required for award of credit. No more than 12 credits earned by such examinations may be applied toward graduation requirements.

College Level Examination Program (CLEP)

Mansfield participates in the national College Level Examination Program (CLEP). MU grants credit for CLEP SUBJECT examinations, but does not grant credit for the CLEP GENERAL examination. Subject examinations are available in the areas of business, composition, education, foreign languages, humanities, mathematics, science, and social science.

CLEP is a way to earn college credits for what you have already learned and may shorten your college experience. Information regarding CLEP examinations is available from the Admissions Office.

Credit by Exam (EX)

Matriculated students who feel they have already mastered the material in a Mansfield course may request permission to challenge the course by examination. Students may elect this option during the first seven working days of the semester. This does not include courses in the areas of independent study, ensemble or other group participation courses, student teaching or pre-professional experience, seminar or selected topics, and laboratory experience unless special permission is provided by the department offering the course and the Office of The Provost/Vice President of Academic Affairs.

Students may not challenge a course in which they have demonstrated competency by passing a more advanced course nor a course which has been waived because of demonstrated competency or advanced placement. The examination must be completed and the contract returned to the Provost's Office, Alumni Hall within the first four weeks of the semester. Applications are available in the Academic Records Office, South Hall.

Graduate Courses

As an undergraduate student at MU, you may enroll in a graduate course (500 level) if you are within 18 semester hours of having satisfied the requirements for a bachelor's degree (as certified by the Academic Records Office).

Graduate courses may be applied toward the minimum undergraduate total of 128 credits upon approval of the "Request for Permission to Enroll in Graduate Courses" form available in the Graduate Office, Alumni Hall and satisfactory completion of such course(s).

Graduate courses may count for graduate credit upon conferral of the bachelor's degree if these credits raise your total above 128. This does not imply automatic admission into the Graduate program.

Honors Program

The Honors Program is an enriched general education program for especially capable and motivated students. The program's curriculum consists of seven courses in the arts and sciences designed to stimulate thought, discussion, and growth.

This program is compatible with most major degree programs at Mansfield and satisfies general education requirements without increasing the number of hours needed for graduation. It structures the student's curriculum for the first two years of study, after which time the student's activities center on his/her major. The capstone course is the senior honors project, which synthesizes advanced work in the major with at least one other discipline.

In order to remain in the Honors Program, students must maintain a minimum 3.0 cumulative quality point average (QPA) and make steady progress in fulfilling honors requirements. Additionally, honors students are expected to complement their academic work with service to the university community. Upon graduating, students completing the program will have such notation on their permanent record. Information about the Honors Program is available from Professor John Ulrich, Director, Belknap Hall. Internship/Pre-Professional Experience Internships are offered in many academic major programs. This experience provides an opportunity to apply knowledge and skills already acquired in the student's area of study. It both supplements and reinforces the academic aspects stressed in the classroom and is usually undertaken during the student's junior or senior year. Internship/Pre-Professional contracts are available in the Academic Records Office, South Hall.

Military Service Credit

Veterans having completed a minimum of basic training with honorable service in the United States Service Branches (DD 214) may apply for three credits in HPE 100 (Health) and/or HPE 101-199 (Physical Education). In addition, credit may be awarded for service training programs based on an official military transcript and recommendations in the American Council on Education Guide.

Study Abroad

Students wishing to participate in an approved foreign study program as a component of their major program must seek formal permission, approval, and advisement from their department and the Office of the Provost/Vice President for Academic Affairs several months prior to beginning the program. Study abroad is available to students who want to study in an American approved program or at another institution for a summer, one semester, or one year without breaking matriculation at Mansfield University. Students must provide evidence of a 2.5 cumulative quality point average (QPA) in all college/university course work attempted and written recommendations from at least two Mansfield University faculty members or administrators who support their application. Students who study abroad in MU courses may opt to receive Pass or Fail (*P/*F) grades for up to fifteen credits of course work in any one semester. Close advisement in the selection and pursuit of such off-campus study will be the obligation of the student, their department advisor, and chairperson. Applications are available in the Academic Records Office, South Hall

Visiting Students

Visiting Students enrolled full-time at a SSHE university may elect to participate in The Board of Governors' Visiting Student program offered at sister institutions for a limited period of time. Information regarding the Visiting Student program is available from the Academic Records Office.

ACADEMIC AND PERSONAL DEVELOPMENT

We provide developmental services to students for the successful pursuit of their academic program and personal development.

These services include Academic Advising, Academic Success Center, Athletic Mentoring, Counseling, Minority Mentoring, Special Programs, and Writing Center.

Academic Advising Center

The Academic Advising Center assists students in a variety of ways related to their academic work. The Center is responsible for the advising of Probationary, Readmitted, Reinstated, and Undeclared students. In addition, the Academic Opportunity, Athletic Mentoring, and Minority Mentoring programs are assigned to the Center, as well as the Academic Standards Review Board (ASRB).

All students with less than a 2.0 QPA are required to make regularly scheduled appointments with their advisor throughout the semester. An advisor can help students make plans and take specific action to improve their academic progress. The goal of the Advising Center is to serve as a resource area and to help students adjus to college.

Academic Success Center

The Academic Success Center offers academic services to assist and support students to attain general and specific educational goals. It provides tutorial assistance and professional consultation for students, staff, and faculty who wish to improve basic reading, writing, computational and/or computer skills or extend their knowledge in academic content areas. The center is staffed by professionals, para-professionals, and peer tutors. It includes a computer lab and small software library. A peer tutorial component is also housed within the center to assist individuals or small groups in most subject areas.

Athletic Mentoring

The Athletic Mentoring program helps student athletes improve their academic performance and maintain their academic eligibility for participation in intercollegiate athletics.

Although athletes on academic probation represent the primary service population, all student athletes are invited to use the support services in this program. These services include academic advising, advice on course scheduling, mentoring, study group management, tracking and monitoring academic performance, and making referrals to other academic support services, e.g., tutoring, counseling, testing, career advising, etc.

The program also maintains interactive relations with (a) other academic support services to help deliver and coordinate services to athletes and (b) coaches to provide effective communication in reporting and monitoring the academic progress of student athletes.

Counseling Center

The University Counseling Center provides free counseling services to all university students and staff. Our primary purpose is to assist people in growing in a positive and productive direction. We will assist you in understanding yourself, your feelings and emotions, your personal problem areas, and your educational concerns. We will develop a strategy with you to assist in reaching your goals and in helping you to live more effectively.

All counseling sessions are completely confidential. The center is staffed by four professional counselors who comply with the codes for ethical behavior as outlined by the American Counseling Association and the American Psychological Association. Counseling services include individual counseling, group counseling, individual or group career counseling, student advocacy, consultation, and testing.

Special Programs

There are two academic support programs assisting individuals who have potential to be successful college students, but do not qualify for regular admission to the University, the Act 101 and the Academic Opportunity Program (AOP), located in South Hall.

The Act 101 program services Pennsylvania residents whose cultural, economic, and educational advantages might impair their ability to pursue higher educational opportunities successfully. The Academic Opportunity Program (AOP) is designed for students who did not do well enough in high school to qualify for regular admission to the University.

Both programs assist non-traditional students develop their academic skills. Selected freshmen are required to attend a comprehensive summer academic enrichment program. Students accepted through Special Programs become regular matriculated students with the same opportunities and responsibilities as other students in accord with university policies and procedures.

Writing Center

The Writing Center is an integral part of the university's Writing Across the Curriculum program. Professional and peer-writing tutors help students develop effective writing and editing strategies that support the formal writing instruction presented in various courses throughout the curriculum.

Career Development and Placement Services

The **Career Development** function provides an opportunity for student self-evaluation, occupational skills and interests evaluation, and vocational outlook opportunities. A career library is also available.

The **Placement Service's** basic function is to help students find meaningful employment upon graduation. Job vacancies, civil service opportunities, and teacher vacancies are publicized to seniors and alumni who are registered with the Career Development and Placement Office. On-campus interviews are scheduled and conducted by representatives of business, industry, public schools and civil service agencies. Student placement credentials are available to potential employers upon mutual request. It is important, therefore, that students wanting interviews with potential employers, or who are applying for positions, be registered with the service and have credential folders complete. A Placement Service fee is charged following graduation.

This office also serves as a testing center for national testing programs relevant to students' future goals such as the Graduate Record Examination (GRE), Miller Analogies Tests (MAT), and the National Teacher Examination (NTE). Information on other testing programs is also available — GMAT, LSAT, TOEFL.

LIVESTOCK

STUDENT LIFE

RESIDENCE HALL LIVING

The community living environment, provided through residing on campus in one of our residence halls, enables you to gain invaluable educational and personal experiences. While residence hall living presents many opportunities and conveniences, it also challenges you to demonstrate appropriate behaviors and live within university and societal expectations.

We can accommodate 1,800 students in our five residence halls. To meet the interests of our diverse student body, a variety of housing options are available, including single sex, co-educational, wellness floors, some academic majors, and special interest housing. In addition, standard double suites and single room options are also available. To help ensure a positive living environment, each hall is supervised by a full-time, live-in professional staff member who is assisted by student staff members who live on each residence hall floor.

Since our residence halls are homes away from home for our students, we've attempted to furnish and equip them to meet students' full needs. In addition to furniture each room is equipped with a phone and cable TV and has optional computer network access. Each residence hall has laundry facilities, computer labs, exercise/weight rooms, kitchenettes, study lounges, and comfortably furnished lounges for informal gatherings. You can also opt to rent lofts and microwave/refrigerator combination units. Our halls are the focal point for a variety of educational, recreational and social programs and activities.

Comprehensive information about residence hall living, on-campus residency requirements, room assignments, etc. is in the university handbook, THE PASSWORD and the residence life brochure, UNDER THE BIGTOP.

STUDENT ACTIVITIES

The university experience involves learning both in and outside of the classroom. To ensure that the out-of-class educational experience is positive, we offer a wide range of activities to supplement the in-class learning, to provide you with opportunities to gain valuable hands-on experience and to strengthen interpersonal skills. The Student Activities Office coordinates a variety of social,cultural, and recreational programs.

STUDENT ORGANIZATIONS

We have almost 90 active clubs/organizations and a wide variety of music ensembles, both vocal and instrumental, that provide outlets for student interests as well as opportunities for students to sharpen personal skills and strengthen both leadership and organizational skills. Many of the activities planned by these organizations are funded by student activity fees.

STUDENT UNION

Memorial Hall, the campus student union building, is a focal point for students to gather and relax. Facilities in the union building include an automated snack bar, TV lounge, the Martin Luther King, Jr. Resource Center, game room, a multi-purpose meeting room, quiet board-game room, as well as offices for the Student Government Association, the Mansfield Activities Council, the student newspaper and some administrative services. Plans are currently being made to renovate and expand the student union facility. Work should be completed within two years.

STUDENT GOVERNMENT ASSOCIATION

Student opinion and input into the functioning of Mansfield University is valued and fostered. Our Student Government Association (SGA) provides a forum for discussion and an avenue for students to make change.

Under the umbrella of SGA, students serve on the Executive Board, Student Senate, and a wide range of university committees. Here, alongside faculty and staff, they are able to be part of the decision-making process of the university.

ATHLETICS AND RECREATION

Mansfield University is a member of the National Collegiate Athletic Association (NCAA) and our 12 intercollegiate teams play at the Division II level. Our athletic program provides an avenue for participation and competition.

Women's programs include field hockey, basketball, cross-country, swimming, softball and track. Men's programs include football, cross-country, basketball, wrestling, baseball and track.

Our recreational sports program is for students who value athletic participation but at a less competitive and more social level. We provide a broad range of participation opportunities in men's, women's and coed events as well as multiple groups involved in aerobics. In addition, we have both indoor and outdoor facilities available to students for organized as well as individual participation. Our new fitness center is scheduled to open during the 1996/97 academic year. It will provide basketball, volleyball, badminton, racquetball, indoor soccer, aerobic and fitness machine facilities for general student use.

HEALTH SERVICES

Primary medical care is provided at our clinic located on campus in Maple B. There is no additional cost for basic care beyond the health fee paid each semester. There is a fee, however, for specialized services such as tests and x-rays. Both the residence hall staff and campus police are trained to deal with medical emergencies. Community ambulance service is available on a 24-hour basis to transport serious emergencies to local hospitals as required. (For detailed information, see the health services brochure available from the Residence Halls and the Office of Student Affairs).

STUDENT POLICIES

EDUCATIONAL RECORDS CONFIDENTIALITY POLICY

MU collects and maintains data and information about students for designated periods of time and for the express purpose of facilitating their educational development. The university recognizes the privacy rights of individuals, as guaranteed by the Family Rights and Privacy Act of 1974 and the Pennsylvania Right-to-Know Law of 1957, yet attempts to balance those rights with the institution's need for information relevant to the fulfillment of its educational missions. As such, the university has an approved policy on THE CONFIDENTIALITY OF STUDENT RECORDS which outlines all procedures that apply to the collection, maintenance and release of such records. Copies of this policy are on file in the library or may be obtained at the Student Affairs Office, 516 North Hall.

Students should be aware that the following information is considered "Public Information" and may be made available without prior consent and is considered part of the public record of a student's attendance: name, address, phone number, date/place of birth, major, participation in activities/sports, weight/height of members of athletic teams, dates of attendance, degrees/awards received and most recent educational institution attended. Any student wishing to prevent the public disclosure of this information may request same by contacting the Office of Student Affairs prior to the close of the first week of classes of any given academic semester. Such a request, however, must be to prevent the public disclosure of all the aforementioned information.

SMOKING/TOBACCO POLICY

This policy is consistent with both the Pennsylvania Clean Air Act and the existing policy adopted by the State System of Higher Education Board of Governors. Any concerns with this policy or reports of violation should be addressed to the Vice President for Administration and Finance.

There is to be no smoking or the use of smokeless tobacco products in MU buildings, except in designated smoking areas. No smoking will be permitted in common areas, reception areas, conference rooms or other places where groups or committees may convene. Smoking is permitted in designated private offices. The entrances to all buildings will be appropriately signed.

The use of smokeless tobacco will be permitted in smoking areas only, provided that users of these products discard the expectorant in toilets and not in common ash trays and common waste containers.

The Vice-President for Administration is responsible for the designation of buildings and those appropriate smoking areas. Requests to designate additional "SMOKING AREAS" or deletion of these areas should be addressed to the Vice President for Administration who will make the decision after consulting, where appropriate, with other cabinet members, and the Administrative Affairs Committee of the Faculty Senate.

The All Residence Hall Council has policies on smoking and use of smokeless tobacco which will continue to be in effect.

IDENTIFICATION CARDS

The university identification card (I.D.) is issued to students, faculty, and staff. It must be carried at all times and shown upon request to authorized university personnel. I.D.'s are examined at the library, at athletic events, and at various campus activities. Residence hall students will have a sticker placed on their I.D. card with their residence hall listed.

Replacements and new I.D.'s are available for $10 in the CCSI Office, Manser Hall. ID's are also a student's meal card and can be used as a cash debit card.

DRUG AND ALCOHOL ABUSE

MU is an active member of the Network of Colleges and Universities Committed to the Elimination of Drug and Alcohol Abuse. The standards of the network have also been

adopted by the Board of Governors of the State System of Higher Education as policy for all state universities.

MU has the responsibility to provide a drug free environment where the use of alcohol and other drugs do not interfere with learning. For this reason, the possession, distribution, and/or use of alcohol and other drugs on the MU campus is prohibited. Persons violating this prohibition will face university disciplinary sanctions, and/or arrest by university police. University disciplinary actions will include an educational component to encourage the individual's acceptance of the responsibility for his/her own choices and behavior.

MU will educate and provide information to the campus community for the purpose of preventing the abuse of alcohol and other drugs. The university will also provide counseling and referrals for persons with alcohol or other drug problems.

MOTOR VEHICLE REGISTRATION

Regulations pertaining to parking and vehicle use are available at the Campus Police Office, and are also distributed when registering your vehicle.

ORGANIZATIONS

Adventure Club

The club invites all students to join in many adventurous and exciting activities. The club emphasizes around team work and provides an atmosphere where long lasting friendships can be made.

All Residence Hall Council (ARHC)

ARHC is the governing body for the residence halls. Its purposes are to set hall policy, approve hall budgets, and to sponsor activities both in the halls and on a campus-wide level. ARHC is an active member of the National Association of College and University Residence Halls (NACURH). Delegates are sent to conferences on the local, regional, and national level. Membership is open to any student who lives in the residence halls.

Alpha Alpha Phi

Alpha Alpha Phi is a local sorority at MU with plans for affiliation with a national sorority. The purpose of the chapter is to lend a helping hand to each other and to those in our social community. As expressed in our solemn pledge, growth and diverse character, inspired by our sisterly affiliation, support the unity of feeling we share as one.

Alpha Chi Rho

Alpha Chi Rho, nationally chartered in 1987, offers members educational, social, and recreational experiences designed to further personal growth. The bond between members is one of brotherhood, mutual respect, and furthering the principles of the fraternity, all designed to serve the membership, the university, and the community. We are located at 637 S. Main Street, please feel free to contact us at 662-9928.

Alpha Psi Omega

Alpha Psi Omega, the world's largest honorary dramatics fraternity, provides an honor society for those doing exemplary work in drama. Students earn points for participation in departmental productions, qualifying them for election to membership. At an awards convocation at the end of the year, trophies are presented to deserving participants in various categories.

Alpha Sigma Alpha

A national social sorority, Alpha Sigma Alpha's purpose is to assist college females in growing intellectually, spiritually, socially, and physically. A variety of sponsored programs enable any college female desiring growth to accomplish their purposes. Participation in the Special Olympics is our philanthropic project. "Aspire, Seek, Attain" is ASA's motto.

Alpha Sigma Tau

Alpha Sigma Tau is a national sorority emphasizing academics. A minimum 2.2 grade point average is necesary to participate. AST is involved in a variety of social service activities both with the local community and nationally. The motto is "Active, Self-reliant, and Trustworthy."

American Choral Directors Association (ACDA)

The ACDA chapter at Mansfield University is affiliated with the National American Choral Directors Association. The purposes of the chapter are to provide an incentive for students to become more committed to the art of choral conducting at an earlier age; to provide learning opportunities outside the classroom and beyond the usually limited time available in choral conducting/methods courses; to provide useful services to the choral area and music department; to encourage student leadership and direct experience with "peer motivated" discovery of the choral art—conducting, repertoire, preparing for a job, etc. Any Mansfield University student is welcome.

Anthropology Club

The MU Anthropology Club welcomes students from all majors who have an interest in anthropology and archaeology. Interests in a broad range of social sciences, cultures, art and history are represented by the club members. The club participates in archeo-

logical digs, sponsors cultural events such as bringing Native American dancers and guest speakers to campus. If you are interested call Dr. Ann Mabe at 4482.

Art Acquisition/Exhibition

This is a student committee working under the guidance of a faculty advisor. The committee plans monthly art exhibits on campus and oversees the university's permanent art collection. They also schedule and implement student art exhibits and purchase art work for the permanent collection. Open to all interested students.

Art Students Guild

The Art Students Guild's purpose is to elevate the standards and quality of art experiences and provide opportunities for exposure to art related fields. Members must attend and participate in a majority of the guild functions.

BACCHUS

BACCHUS (Boost Alcohol Consciousness Concerning the Health of University Students) is a national peer education network that attempts to increase student awareness concerning healthy lifestyles through responsible decision-making, especially when it comes to the appropriate and legal use of alcohol

Badminton Club

The Badminton Club is made up of MU students and faculty who have a common interest in competitive badminton. Club members represent the school at several regional tournaments each year and the Mansfield Club hosts a tournament of its own each February.

Beta Rho Omicron

This fraternity is designed to meet the need of brotherhood among college students through honesty, trust and friendship. Open to all students.

Black Student Union (BSU)

BSU is an academic and social support group for students who are interested in the promotion of the culture and interest of African-Americans, Hispanics, or other students of African descent. Activities are designed to encourage and motivate students to realize personal potential, achieve academically, and increase cultural knowledge. The BSU office is located in 110 Pinecrest Manor.

Campus Christian Fellowship

Campus Christian Fellowship is a Christ-centered ministry focusing on man's need to experience personal salvation through faith in Jesus Christ. Opportunities exist for students to gain experience in a variety of ministries including public and personal evangelism, organizing and conducting Bible Studies, music ministry, retreats, and guest speakers.

Cedarcrest Hall Council

The "Crest Council" is the governing body for Cedarcrest Manor, a popular co-ed residence hall. The group is open to all residents of Cedarcrest Manor and consists of four officers, representatives from each floor, and residents who want to make a difference. "If you think you're the best, ride the Crest!"

Cheerleaders

Cheerleading is open to any student with an overall 2.00 QPA. Up to 10 women and 10 men are chosen through tryouts. The football squad is selected in March and the basketball squad in October.

Chemistry Club

The Chemistry Club gives students an opportunity to become better acquainted with the field of chemistry. Members and the student body benefit from guest speakers, films, projects, and special programs.

College Democrats of America

CDA members pledge themselves to supporting the philosophy and candidates of the Democratic Party. CDA members try to educate students about political philosophies and assist local, state and national Democratic candidates.

Computer Science Club

This club is open to any student with an interest in computers. It will enhance the opportunities available to the student through guest speakers, field trips, and participation in the Pennsylvania Association of Computer and Information Science Educators (PACISE).

Council for Exceptional Children

The student chapter of Council for Exceptional Children is affiliated with the national conference. Membership in the chapter is open to all college students, especially those interested in working with exceptional children. There is a membership fee for joining on the national level, which includes a monthly journal, but it is free to all students for the local level. Members have opportunities to meet and talk with professionals in the field. Specific activities are planned which promote the pre-professional development of the members. Group activities include dances for individuals in residential facilities, state and national conferences, special olympics, and guest speakers.

CATS (Creative Arts Therapy Sounding)

The Music Therapy Organization sponsors workshops, guest speakers, and representation at conferences in support of the profession of music therapy. It is affiliated with the National Association for Music Therapy Students and is open to anyone interested in music therapy.

Criminal Justice Club

This club's purpose is to promote interest and understanding of the criminal justice system. The organization, open to all interested students, provides the opportunity for members to meet with professionals in the areas of law enforcement, corrections, and the court system.

Debate Association

This organization provides extracurricular intercollegiate competition in the area of policy debate. Members research the year's current topic and travel to other colleges to compete. Any full-time Mansfield University student in good academic standing may participate.

Delta Zeta Sorority

Delta Zeta sorority members have the opportunity to interact with peers, strengthen self-confidence, achieve academic excellence, develop leadership potential, and help others through national and local philanthropies. Delta Zeta supports all Anti-Hazing Laws. Iota Theta Chapter is located on first floor in Laurel Manor B.

El Club de Espanol

El Club de Espanol is an organization devoted to the stimulation of interest in the Spanish language and culture. Its many activities included field trips, movies, and dinners. Anyone is welcome.

Electronic Media Association

Open to all students, EMA strives to promote and develop personal and/or professional interest in electronic media as it relates to the radio, television, and film industry.

Eta Beta Tau

A co-ed, fine arts social service fraternity, Eta Beta Tau is involved in many of the social activities that occur on campus.

Fellowship of Christian Athletes

Open to all, FCA's mission is to present to athletes, coaches, and all whom they influence, the challenge and adventure of receiving Jesus Christ as savior and lord, serving Him in their relationships and in the fellowship of the church.

Flashlight

This is the student newspaper and is published weekly by Mansfield University students. A wide variety of service opportunities are available for staff members including reporting, typing, designing, selling and taking photographs. Additional staff are always welcome.

Geography Club

The Geography Club furthers the diverse interests of geography majors, minors and other interested students. The club sponsors presentations and trips related to regional planning, environmental science and other aspects of geography.

Geology Club

The Geology Club promotes geology in the Mansfield area. It is open to all students and faculty. The Geology Club sponsors a variety of field trips and speakers. Members attend and participate in professional meetings.

German Club

The German Club is open to anyone interested in the German language and/or culture. There are no requirements to join, only an interest in foreign languages and places.

Hemlock Hall Council

Hemlock Hall Council consists of representatives of the residence hall. Meetings are held weekly and are open to all Hemlock residents. We host semi-formals, picnics, parties, and tournaments for the residents.

Honors Association

Membership is open to any student in good standing in the university's Honors Program. Its purpose is to plan and implement the social and cultural events of the association.

Interfraternity Council (IFC)

The Inter-Fraternity Council is the governing body of the social fraternities. Its purpose is to promote the best interests of the fraternity system and the university. IFC makes binding rules concerning fraternity policy and enforces rushing, pledging, intramurals, scholarships, etc. IFC kindles the spirit of cooperation among all fraternities and promotes the highest ideals of fraternalism.

Kappa Alpha Psi

Kappa Alpha Psi Fraternity, Inc. was founded in 1911, for the purpose of achievement. Members must strive to maintain a high degree of professionalism. A major focus of the fraternity is community service. Kappa Alpha Psi has the distinction of being the only international incorporated social organization recognized on Mansfield's campus. Any male with a Q.P.A. of not less than 2.3 can be considered for membership.

Kappa Kappa Psi

This is an honorary band fraternity dedicated to the promotion of and respect for college and university bands. The Mansfield chapter (Epsilon Iota) actively supports the band programs and the university through various activities. Membership is by invitation.

Kappa Phi

Kappa Phi is a sisterhood strongly rooted in Christ. We are a nondenominational group of Christian university women. Our purpose is to provide opportunity and challenge to serve Christ through our lives.

Lambda Alpha Epsilon

Lambda Alpha Epsilon is open to any student who is interested in the criminal justice field, either in the study of or employment in such areas.

Lambda Chi Alpha

Numerous men have shared fraternity life in the Beta Omega chapter of Lambda Chi Alpha. The membership is actively involved on campus and throughout the community. Many hold responsible positions in other clubs and organizations. For more information contact the Office of Student Affairs, Interfraternity Council Advisor, 120 Pinecrest.

Lambda Sigma

Lambda Sigma is a national honor society for sophomore men and women dedicated to fostering leadership, scholarship, fellowship, and the spirit of service among college

students. They promote the interests of Mansfield University. The Alpha Epsilon chapter offers students opportunities for personal growth, leadership experience, and a sense of involvement in MU.

Laurel Hall Council

LHC is the governing body for Laurel Manor and is responsible for various programming activities and hall improvement suggestions. LHC works in cooperation with ARHC. Each floor elects two representatives to the council each semester. Officers are elected from within the hall for a term of two semesters.

Mansfield Activities Council (MAC)

MAC plans programs and activities for the entire university community, including movies, concerts, coffeehouses and cultural affairs, as well as feature arts and forums. MAC also assists other university organizations in programming. The MAC office is in 205 Memorial Hall.

Mansfield International Student Organization

This club was created by the MU international students. While membership is open to all interested students, American students are especially encouraged to join. With the rich and diverse cultures of its members from all over the world, the organization is unique and has much to offer educationally, socially and culturally. The MISO office is in 108 Pinecrest Manor.

Mansfield University Nurses Association (MUNA)

MUNA is open to any student, regardless of race, creed, national origin or major. The purpose of this organization is to provide each member with the opportunity to contribute to its growth by encouraging participation as an individual and as members; to assist each member in achieving professional and social growth through participation in this organization as well as similar organizations at area, state, and national levels, and to develop an interest in recruitment to nursing.

Maple Hall Council

Maple Hall Council benefits Maple Hall and the campus. The council consists of representatives living on each male and female floor in the building. They plan activities, fund raisers and represent students in the campus and residence hall decision-making process.

Mathematics Club

The purposes of the Math Club are to promote communication among students and faculty and to encourage participation in activities related to mathematics. Activities sponsored by the Math Club include field trips, speakers, and social events in addition to assisting the department in various ways.

Mu Xi Literary Society

This organization fosters appreciation of language and literature and encourages creative and critical writing. Besides publishing the campus literary magazine Edge City each year, the society sponsors guest speakers, poetry readings, and field trips to plays and other events. A highlight is the annual trip to the Stratford Shakespeare Festival in Canada in October.

National Art Education Association

The Association's purpose is to educate and prepare future art teachers for a position in education. The club sponsors speakers and trips that deal with general and art education.

National Association of Jazz Educators

The purpose of this organization is to bring together those interested in jazz, rock, and popular music and to provide opportunities for musical experiences and growth. The International Association of Jazz Educators is a sponsor of the annual Mansfield University Jazz Festival.

Native American Student Union

The Native American Students Union (NASU)is open to all Mansfield University students who are interested in learning, participating and promoting Native American cultures throughout the campus community. The NASU participates in forums, trips and events, such as bringing in Native American dancers and speakers. If interested the NASU office is located in 101 Pinecrest.

North American Saxophone Alliance (NASA)

NASA is a student-run organization on campus, but it is part of a national organization operating for the purpose of furthering the composition and performance of saxophone music. The MU chapter sponsors performances of well known saxophonists, tours the area for recruitment of saxophonists, through performance of solo and quarter music by students and is active in many regional and national conferences. Membership is open to all.

NT-AEYC (Northern Tier Assn. for Education of Young Children)

NT-AEYC is a national organization with a local chapter at Mansfield University. The objective of the organization is to provide information for early childhood educators which includes ages birth to eight years. Information includes teaching strategies and seminars on current topics that influence early childhood education as well as service opportunities. A professional journal, **Young Child**, is included with the national dues. Finally, NT-AEYC strives to provide professional growth and strong leadership characteristics to its members. The organization is open to anyone interested in early childhood education, especially education majors.

Panhellenic Council

Panhellenic Council is the governing body for all sororities. It is executive, legislative, and judicial. The branches compile the rules and regulations by which the sororities abide. Panhellenic Council sponsors Rush Week, the Scholarship Cup, and the Panhellenic Handbook. In cooperation with the Inter-Fraternity Council (IFC), Panhellenic co-sponsors Greek Week.

Phi Beta Lambda

Phi Beta Lambda is a national business fraternity associated with Future Business Leaders of America (FBLA). Phi Beta Lambda operates Greek T's and More, a business on campus which provides members with experience and understanding of how a business operates. Phi Beta Lambda is also responsible for Career Seminar Day, a major annual event on campus.

Phi Beta Sigma

Phi Beta Sigma fraternity embraces the principles of brotherhood, scholarship, and service which are crystallized in the fraternity motto "Culture for service and service for humanity."

Phi Kappa Theta

Phi Kappa Theta is to help each member take an active and positive role in the campus community; to help each member discover and aspire to his own unique potential as an individual; to enhance university and community life through social affairs and benefits; to promote honesty, integrity and brotherhood among the members; and to promote the fraternal system of Mansfield University.

Phi Mu Alpha Sinfonia

Phi Mu Alpha Sinfonia is a national professional music fraternity for men. The Beta Omicron Chapter has been broadening the musical horizons of Mansfield University since 1931. Phi Mu is involved with commissioning new works of music, sponsoring recitals, and performing throughout the campus and Mansfield communities, among many others. The Beta Omicron chapter has strong ties with the other Phi Mu Alpha chapters in our area, and spends at least one weekend a semester working together

with other chapters. We are open to all students, and strongly encourage non-music majors with an interest in music to join. Through projects, activities, and services, Phi Mu strives "to instill in all people an awareness of music's important role in the enrichment of the human spirit."

Phi Sigma Pi

Phi Sigma Pi has the distinction of being Mansfield's first fraternity. This national honor fraternity is described as being one-third academic, one-third service, and one-third social. To pledge Phi Sigma Pi, one must have a 2.95 cumulative grade point average and be at least a second semester freshman. Phi Sigma Pi welcomes any man or woman who is concerned with the ideals of knowledge, training, and friendship.

Philosophy Club

Promoting philosophical activities on campus, the Philosophy Club sponsors trips, lectures, panel discussions and films on a broad variety of subjects. It also publishes Synapse, a student magazine of philosophy and opinion that has appeared annually since 1979.

Pi Kappa Delta

Pi Kappa Delta's purpose as a fraternity is to stimulate progress in and to further the interests of intercollegiate speech activities and communication in an effort to provide functional leadership training for life.

Pinecrest Hall Council

Pinecrest Hall Council consists of representatives of the residence hall. Meetings are held weekly and are open to all Pinecrest residents. We sponsor free community service, initiate residence hall repairs, and host picnics, parties, and tournaments for the hall.

Political Science Club

The Political Science Club is open to all MU students. This club is a part of the History and Political Science Department and is a forum for communication between the students and the faculty. In addition, members offer a service to the college community and community-at-large by bringing in government and political leaders to speak to the communities. We also attend workshops and conferences in which professionals from the political science field address current issues. The primary purpose is to expose interested individuals to the world of political science.

Pre-Law Association

Our primary purpose is to provide information to students who plan to attend law school. Guest speakers and field trips benefit both members and nonmembers.

Psi Chi

Psi Chi is the national honor society in psychology. It provides academic prestige to its initiates by the mere fact of membership. To be considered, one must be a psychology or human relations major, have a minimum of a "B" average, and 9 semester credit hours in psychology.

Psychology Club

The purpose of this organization is to advance interest in and knowledge of psychology and to encourage, stimulate, and maintain scholarship of the individual members in all fields.

Public Relations Society

The Public Relations Society is one of the many organizations on campus open to, and interested in all students. We offer students the chance to generate creative ideas and put those ideas into action, to better our community on and off campus. It also is a great opportunity for you to meet new people and become more familiar with the campus.

Saddle Club

If you like horses and being outdoors, the Equestrian Club is for you. This club is open to all students from beginning to advanced riding levels. Grooming, saddling, and trail riding are club activities. We also participate in field trips and other activities. Activities are based on the interests of the members. For more information call 662-3065.

SHARE

The purpose of SHARE is to create a collection of informational material that is presented by national and international organizations that concern themselves with the promotion of Human Rights and environmental conservation.

Sigma Alpha Iota

Sigma Alpha Iota is an international music fraternity for women whose ideals are high standards of musicianship, scholarship, sisterhood, and character. Any woman in the music department who is under private musical instruction, has at least 6 credits in music, has a 2.5 academic average, and a "B" in her major applied area, is eligible to pledge membership.

Sigma Delta

Sigma Delta is also known as Brothers of Social Service. The brotherhood strives to strengthen the relations between all campus and community organizations, such as their "sisters" the Tri Sigs. One way the brothers promote community is through Movie Nite at the Hut.

Sigma Omega Lambda

This sorority stresses educational achievement, development of personal talents, and reflects pride of color, culture and heritage. Open to all students.

Sigma Tau Gamma

Sigma Tau Gamma, established on February 15, 1965, is the oldest social fraternity on Mansfield's campus. Founded nationally in 1920, the fraternity strives to achieve its six principles that are fundamental for human achievement: value, learning, leadership, excellence, benefit, and integrity. Sigma Tau Gamma is active in many campus/community events and sponsors a number of service projects throughout the school year. "Sig Tau's" participate in a variety of campus activities including student government, WXMU, the campus radio station, football, track, and wrestling. The fraternity is a vehicle to enhance the university experience physically, mentally, academically, and socially.

Sigma Zeta

Sigma Zeta is the national honorary science and mathematics society at Mansfield University. It recognizes outstanding academic achievements in the natural sciences and mathematics. It provides an opportunity for social and educational interaction among students sharing common academic interests and career goals.

Sisters of Social Service (Tri-Sigs)

The Sisters of Social Service, "Tri-Sigs", is a service based women's organization for both the university and community. As a part of their program, the sisters strive to strengthen relations between all campus and community organizations. One way is through their numerous community service projects. They also offer services unique to the university. One of these is Zanzibar, the non-alcoholic bar.

Ski Club

The Ski Club's interest is in the pursuit of the sport and its intrinsic values such as recreation, exercise, the exhilaration of being outdoors and the developing of a life-long physical and social activity.

The Ski Club organizes weekly trips to local ski areas as well as a week long trip to a major U.S. ski area over semester or spring break. The club negotiates special lift ticket rates, provides transportation, and operates a fully equipped, up to date, ski rental shop. For more information, contact the Office of Student Affairs, 120 Pinecrest, ext. 4930 for the names of the officers and/or advisor.

Social Work Club

The Social Work Club is open to all MU students. It is an integral part of the department and seeks to foster dialogue between the faculty and the students. The club meets regularly to determine members' attitudes and feelings regarding policy, require-

ments, curriculum. It is a vehicle through which students are exposed to the professional world of human services in general and professional social work in particular.

Student Dietetic Association

This organization is open to anyone interested in dietetics and/or food service management. Members learn about their future professions through invited speakers, educational field trips and bi-monthly meetings. Members of Mansfield S.D.A. are also members of the Pennsylvania Student Dietetic Association and are eligible to be members of the American Dietetic Association.

Student Government Association

The Student Government Association is the elected governing body representing Mansfield's students. SGA is comprised of a senate, with one senator for each 100 students, and an executive committee, consisting of a president and a vice president. This body represents and promotes student issues and concerns with the faculty and administration and is a good way to become involved.

Student PSEA

To develop among college students preparing to teach; (a) an understanding of the teaching profession through participation in the work of the local, state, and national education associations; (b) to provide leadership training and experiences; (c) to plan activities that can be coordinated with other existing chapters' programs; (d) to provide opportunities to observe and work with citizen groups for the welfare of children and public education; (e) to seek actively higher standards of teacher education; (f) to stress the importance of careful selection of persons admitted to teacher education institutions with emphasis on character, personality, and scholarship.

Tau Beta Sigma

Tau Beta Sigma is a national honorary band sorority that promotes and supports collegiate bands and band activities. Opportunities exist for members to gain in such areas as leadership, musical achievement, and promotion of worthwhile projects. Eligibility is based on a QPA of at least 2.5 and participation in the Concert Wind Ensemble, Symphonic Band, Jazz Band, or Orchestra.

Tau Kappa Epsilon

The Nu Tau chapter of Tau Kappa Epsilon (the world's largest fraternity) was established at Mansfield in 1971. For the past twenty years, TKE has become a dominant force in fraternal activities in Mansfield with a very strong emphasis on academics and involvement in campus activities.

University Players

University Players is the dramatics group on campus. Members produce three or four major productions each year for the campus and the community. Students have an opportunity to act as well as work in technical areas. Membership is open to all interested students.

WNTE-FM

Music Radio 89 is dedicated to providing educational, informative and entertaining programming for the campus and community. Radiating at 89.5 megacycles, WNTE is a 115 watt educational FM station, licensed by the Federal Communications Commission. With main studios and offices located in the lower level of South Hall, WNTE welcomes all interested students to join in the fun of broadcasting.

Zeta Tau Alpha

Zeta Tau Alpha is a women's social fraternity. Zetas always strive for academic excellence, while maintaining a high social standard of conduct. Individual interests include a variety of well rounded activities: sports, music, cheerleading, student government, and community service, among others. ZTA is also proud to support the Susan G. Komen Breast Cancer Foundation.

UNDERGRADUATE PROGRAMS

Mansfield University offers over 80 undergraduate degree programs leading to an associate or baccalaureate degree as well as minor programs. Teaching certification grades are in parentheses. The specific requirements for each program are given on the following pages under the department offering the program. Many majors offer options for fulfilling requirements. These programs and options, subject to change, are listed below.

Associate Degrees	Options	Department
Accounting		Business Admin.
Business Administration		Business Admin.
Criminal Justice		Criminal Justice Admin.
Geography/ Mapping Technology		Geography & Geology
Information Systems		Mathematics & Computer Science
Liberal Studies		Philosophy
Media Specialist		Communications & Theatre
Professional Writing		English
Radiology Technology AAS		Robert Packer Health Science
Respiratory Therapy AAS		Robert Packer Health Science
Social Work		Social Work/ Sociology/ Anthropology
Travel & Tourism		Business Admin.

Baccalaureate Degrees	Options	Department
Art Education BSE (K-12)		Art
Art History BA		Art
Biology BA	Pre-Med	Biology
Biology BS	Medical Technology Environmental Science Pre-Med Biology: Fisheries	Biology
Biology BSE(7-12)		Biology
Business Admin. BS-	Accounting General Business	Business Admin.
	International Business Travel & Tourism	Business Admin.
Chemistry BS		Chemistry
Chemistry BSE(7-12)		Chemistry
Computer & Information Systems	Computer Science Information Systems	Mathematics & Computer Science
Criminal Justice Administration BS		Criminal Justice Administration
Earth and Space Science BSE (7-12)		Geography & Geology
Economics BA		Business Admin. & Economics
Economics BS		Business Admin. & Economics
Elementary Education BSE (K-6)		Education
English BA		English
English BSE (7-12)		English
Exceptional Persons BS		Special Education
French BA		Foreign Languages
French BSE (K-12)		Foreign Languages

Baccalaureate Degrees	Options	Department
General Studies BA		Philosophy
Geography BA		Geography & Geology
Geography BS	Environmental Science	Geography & Geology
	Regional Planning	Geography
German BA		Foreign Languages
German BSE (K-12)		Foreign Languages
History BA		History & Political Science
Mass Communications BS		Communications & Theatre
	Broadcasting	
	Journalism	
	Performance Art	
	Public Relations	
	Theatre Arts Management	
Mathematics BS	Actuarial Science	Mathematics & Computer Science
Mathematics BSE (7-12)		Mathematics & Computer Science
Music BM (K-12)		Music
Music BM		Music
	Elective in Business	
	Music performance	
	Music Therapy	
Nursing BSN		Robert Packer Health Science
Nutrition & Dietetics BSN		Robert Packer Health Science
Philosophy BA	Pre-Law	Philosophy
Philosophy BS	Pre-Law	Philosophy
Physics BSE (7-12)		Physics
Political Science BA	International Studies	History & Political Science
Psychology BS	Human Resource Management	Psychology
	Psychology	

Baccalaureate Degrees	Options	Department
Social Studies Comprehensive BSE (7-12)	Economics	Education
	Geography	
	History	
	Political Science	
	Psychology	
	Sociology/ Anthropology	
Social Work BSW		Social Work/ Anthropology/ Sociology
Sociology/ Anthropology BA		Social Work Anthropology/ Sociology
Spanish BA		Foreign Languages
Spanish BSE (K-12)		Foreign Languages
Special Education BSE (K-12)		Special Education
Speech Communication BA		Communication & Theatre
Studio Art		Art
Undeclared		Academic Advising Center

ART

Associate Professor Carter, chairperson
Associate Professor Hamwi
Assistant Professors Kutbay, Loomis
Instructor Miller

The Art Department offers four degrees: **BSE in Art Education, B.S. in Studio Art, BA in Art History, and M.Ed. in Art Education at the Graduate Leve**l. The department also has certification for Art Educators.

The curriculum in Art Education in structured to guide prospective teachers in meeting the challenge of accomplishment in general education, to develop their abilities by providing studio experiences in basic studio areas; and to provide a rich background in aesthetics, theory, and criticism, as well as courses in psychology and the philosophy of art education. Upon satisfactory completion, the degree of Bachelor of Science in Art Education is awarded, qualifying the graduate to teach art in the elementary and secondary schools.

Of the fifty seven hours required in general education, the following courses should be taken the freshman year: Art 102 - Survey of Art, Psy 101 - General Psychology, Art 241 - Color and Design. During the sophomore year, students follow guidelines for General Education and select courses that will satisfy General Education group requirements. Students also call on the assistance of department faculty (advisors) to assist them in their course selections for meeting General Education requirements.

The Art Program offers professional experiences throughout the four year program. The opportunities of gaining practical experiences in rural, urban and suburban education settings are available to the art student to meet the professional needs of art educators.

The Art History Program gives you a good background in the historical and cultural origins of the visual arts, from cave painting to computer art. Some courses include Ancient and Medieval Art, Art of the Renaissance, History of Prints, Oriental Art, and the History of African-American Art and Native-American (Indian Art), among others.
Some Careers: This program is primarily preparation for graduate school, but with close advisement in selecting courses, it can also prepare you for work in galleries, museums, writing in the art field, and other related careers.

The Studio Art Program has hands-on experiences in several media, including concentrations in drawing, painting, printmaking, ceramics, jewelry, sculpture, fibers and crafts. These courses are balanced with academic courses in art and general liberal arts courses. You will have opportunities to display your works on and off campus.

Some careers: Occupations range from being a freelance artist to working for a design firm. Large and small companies, and government agencies have artist designers on their staffs. The growing field of video uses artists. There are many careers in medical, scientific and other types of technical illustration. By choosing courses in computers, business, or the sciences, you can further multiply your career options.

The M. Ed. in Art Education is intended to balance academic and studio studies with an emphasis on research which concludes with each individual submitting a visual portfolio and a written thesis which explores a certain aspect of art education. The program encourages a broad interpretation of the concept of art education, that encompasses the role of art in people's lives at all ages, and the value of art to society and to all aspects of education. The graduate student must complete six credits required in Methods and Materials of Research and Current Trends in Art Education (I.A.). Three credits are required from the Foundation of Education Courses (I.B.) The graduate student may select

six more credits from eight courses relating to education, art education at various grade levels, administration of art programs, aesthetic theory application, and art and the special child (I.C.).

A minor in Art consists of 18 credits hours designed to give the student a foundation in art theory and skills. Courses required to complete the minor are ARH 101 Intro to Art, Art 210 Drawing, Art 241 Color & Design and also nine credits hours in art electives.

COURSE REQUIREMENTS

Art Education Major (B.S.Ed.): 128 s.h.

FIRST SEMESTER: *ART 102, *210, *241; **SECOND SEMESTER:** *ART *325, *295, *261; **THIRD SEMESTER:** ARH Art History Elective (3 sh), ART 201 or ART 231, 271, 281; **FOURTH SEMESTER:** ART 231 or 201, 281 or 271; FIFTH SEMESTER: ART 251 or 365, *ART 345 or Art Elective, *ARE 390, *ART 300; **SIXTH SEMESTER:** ART 365 or 251, Art Elective (3 sh), *ARE 388, 393; **SEVENTH SEMESTER:** ED 400, ART 403; **EIGHTH SEMESTER:** ED 400.

*Asterisk courses are only offered once per academic year and during the semester denoted above.

A minimum of ten of the eleven basic studio courses (first semester studios) must be taken before taking advanced studios or Art electives.

Art Education majors will not begin their methods (education) courses until their junior year. All second semester art education sophomores are required to have an interview with the art education committee to be accepted into junior and senior methods courses.

All basic studio and methods courses must be taken before an Art Education major can take ED 400, Student Teaching. ED 400 is taken during the seventh or eighth semester.

Art History Major (B.A.): 128 s.h. **FIRST SEMESTER:** ARH 102, ENG 112W, Art History Electives (6 sh), Fine Arts Elective (3 sh); **SECOND SEMESTER:** COM 101, Art History electives (3 sh), Electives (6 sh), General Ed Electives (3 sh); **THIRD SEMESTER:** Electives (6 sh), Foreign Language (3 sh), General Ed Electives (6 sh); **FOURTH SEMESTER:** Foreign Language (3 sh), Studio Art Electives (3 sh), Electives (3 sh), General Ed Electives (6 sh); **FIFTH SEMESTER:** ART 300, Studio Art Electives (3 sh), General Ed Electives (3 sh); **SIXTH SEMESTER:** Art History Electives (6 sh), Electives (3 sh), General Ed Electives (6 sh); **SEVENTH SEMESTER:** Art History Elective (3 sh), Studio Art Electives (3 sh), General Ed Electives (6); **EIGHTH SEMESTER:** ART 404, Electives (9 sh), General Ed Electives (6 sh).

Studio Art Major (B.S.): 128 s.h. **FIRST SEMESTER:** *ART 102, *210, *241, **SECOND SEMESTER:** *ARH 325 History of Modern Art (3 sh), *ART 295 Crafts (3 sh), *ART 261 Waterbase Media (3 sh); **THIRD SEMESTER:** Arh Art History elective (3 sh), ART 201 or 231, ART 271 or ART 281; **FOURTH SEMESTER:** Art History Elective, ART 231 or ART 201, ART 281 or ART 271; **FIFTH SEMESTER:** Art History elective (3 sh), ART 251 or 365, *ART 345 or Art Concentration (3 sh), *ART 300 ; **SIXTH SEMESTER:** ART 365 or 251, Art Concentration (3 sh); **SEVENTH SEMESTER:** Art Concentration (15 sh), ART 403; **EIGHTH SEMESTER:** Art Concentration (15 sh).

*Asterisk courses are only offered once per academic year and during the semester denoted above.

A minimum of ten of the eleven basic studio courses (first semester studios) must be taken before beginning area of concentration and taking advanced studio courses.

COURSE DESCRIPTIONS

Art Education

ARE 343: 3 s.h.
Arts and Crafts in the Special Education Curriculum
Creative work in a variety of activities with arts and crafts materials. Particular emphasis is on the needs of special education classes.

ARE 388: 3 s.h.
History and Philosophy of Art Education
Designed to acquaint the student with social, historical, and philosophical developments in education and art education.

ARE 390 : 3 s.h.
Art Curriculum and Teaching in Elementary Schools
A pre-student teaching experience in which each student prepares lessons and teaches children of pre-school age through the fifth and sixth grades. Activities may include field trips, observations, and participation in nearby public schools. Program takes place on Saturday morning.

ARE 392: 3 s.h.
Teaching Art in the Elementary Schools
Examines the philosophy and principles of art education in the pre-school and in the elementary school curriculum with experience in the development of self-expression through a variety of public school art materials and activities as a basis for understanding and evaluating children's art work. For non art majors only.

ARE 393: 3 s.h.
Art Curriculum and Practical Application in Secondary Schools
Pre-student teaching situation based on classroom problems that occur in an actual teaching situation in the Mansfield junior/senior high school. Problems of an individual in the classroom provide a personalized approach to problems and their solutions. Emphasis is placed upon application, observation, and evaluation of teaching as related to the adolescent in the junior/senior high school. Prereq: ARE 390.

ARE 394: 2 s.h.
Curriculum Development in Art Education
Investigation of the concepts, attitudes, and values of art theory and practice as related to curriculum; a study of classroom problems and procedures in various teaching situations. ARE 400: 12 s.h. Student Teaching (By arrangement) Provides the opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university-established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental university supervisor. ARE 400 is required for students seeking certification to teach. Prereq: 2.5 QPA.

ARE 444: 6 s.h.
Art and Recreation for the Handicapped Child
A three-week workshop with instruction in and practical application of art and recreation for the handicapped child in connection with the Easter Seal Society of Pennsylvania. First part on campus for several days in a classroom situation. The second part in an Easter Seal Society camp for the two-week session, living, working, and playing with young handicapped children 24 hours a day under the direction and supervision of both camp and college professionals.

Art History

ARH 101: 3 s.h.
Introduction to Art
An approach to the dominant movements and ideas of the Western World as they evolved in the visual arts from the cave art origins to the twentieth-century systems.

ARH 102: 3 s.h.
Survey of Art
An intercultural, interdisciplinary approach to dominant movements and ideas as they evolved in visual arts. Examines philosophic commonality of purpose which becomes intertwined with man's record of history.

ARH 320: 3 s.h.
Art of Africa and Oceania
The study of prehistoric art and architecture from the Paleolithic cultures of: Africa, Asia, Australia, Europe, the Americas, and the South Seas. Prereq: ARH 101, 102 or permission of instructor.

ARH 326: 3 s.h.
Oriental Art
Study of art in China, India, and Japan in the areas of architecture, painting, pottery, sculpture, and the minor arts. Trace influences central to the development and spread of important styles and the relationship of art to the classics of Oriental aesthetics.

ARH 321: 3 s.h.
Ancient and Medieval Art
Comprehensive study of architecture, sculpture, painting, and minor arts from the prehistoric through the Gothic period. Emphasis on aesthetic values and historical implications, inconographic, and symbolic significance. Prereq: ARH 101, 102 or permission of instructor.

ARH 322: 3 s.h.
Art of the Renaissance
Comprehensive study of architecture, painting, and sculpture in Italy, Flanders, Holland, Germany, England, France, and Spain with emphasis on the general characteristics of the Renaissance. Prerequisite: ARH 101 or 102 or permission of instructor.

ARH 323: 3 s.h.
Baroque and Rococo Art
A comprehensive study of painting, sculpture, and architecture from 1600 to 1750 in Italy, Flanders, Germany, Austria, Holland, Spain, France and England. Prereq: ARH 101, 102, or permission of instructor.

ARH 324: 3. s.h.
Native Arts of the Americas
A survey of the native arts of North, Central, and South America during the pre-Columbian and historic periods. Painting, sculpture, architecture, and crafts will be examined. Prereq: ARH 101, 102, or permission of instructor.

ARH 325: 3 s.h.
History of Modern Art
Comprehensive study of the development of Modern Art from Nineteenth-Century Neo-Classicism through contemporary movements. Prereq: ARH 101, 102 or permission of instructor.

ARH 327: 3 s.h.
History of Prints
The history of printmaking and the significant influences of Eastern and Western cultures on the graphic processes. Prereq: ARH 101, or 102, or permission of instructor.

ARH 328: 3 s.h.
History of Architecture
Study of architecture, styles, and methods of construction from the earliest civilizations to the present. Analysis of the outstanding contributions in architecture of the various cultures with emphasis on further development and influences, citing important examples and their architects. Prereq: ARH 101 or 102 or permission of instructor.

ARH 329: 3 s.h.
History of African-American Art
Survey of early African art to contemporary African-American art, appraise the past and present performance of African-American artists and their contributions to American art history.

ARH 330: 3 s.h.
History of American Art
Comprehensive study of the heritage of American art from the limners and artisans of colonial times through the 20th century in painting, architecture, and sculpture; emphasizing movements, trends, and contributions by significant artists, architects, and sculptors. Prereq: ARH 101, 102, or permission of instructor

ARH 401: 6 s.h.
Cultural Origins of Art
A travel-study seminar abroad visiting various countries around the world. Provides intensive study of the humanities and cultures from which various art styles emerge. Lectures will be conducted throughout the tour by the director. Prerequisite: ARH 101, 102, or permission of instructor. Dual listed with 501.

ARH 407: 3 s.h.
Empires of the World Through Art
Explores the use of art and architecture of various empires as images of power and political statement. The Roman, Byzantine, Holy Roman, Ottoman, Russian, and British empires will be examined. Prerequisite: ARH 101, 102 or permission of instructor. Dual listed 507.

ARH 408: 3 s.h.
Art and Mythology of Ancient Greece
Explores the relationship between art and mythology in ancient Greece from the Bronze Age through the Classical and Hellenistic periods. Prerequisite: ARH 101, 102 or permission of instructor. Dual listed with 508.

ARH 409: 3 s.h.
Women in Art
A study of the accomplishments and contributions of women in art and architecture from antiquity to the twentieth century. Women as subjects in art will also be examined with emphasis on the cultural and artistic milieu in which they are represented. Prereq: ARH 101, 102, or permission of instructor. Dual listed with 509.

ARH 497: 1-3 s.h.
Independent Study
May be taken for one, two, or three credits at one time.

Art

ART 201: 3 s.h.
Painting
Introduction to the methods, techniques and approaches of the painter. Emphasis is placed on composition, application, and involvement in creative self-expression. The understanding and use of the media for solving various problems of representation is stressed.

ART 210: 3 s.h.
Drawing
Builds those skills and attitudes necessary for the remainder of the program. Introduces the two and three dimensional aspects of drawing and develops personal power of expression. Designed to stimulate creative thinking, develop a sensitivity to the art elements, sharpen impressions and the visual memory.

ART 231: 3 s.h.
Printmaking
Introduction to the printmaking processes of linocut, woodcut, lithography, serigraphy, etching, intaglio, and drypoint with emphasis on their use for creative expression.

ART 241: 3 s.h.
Color and Design
Introduction to design, types of harmony, sequence and balance while applying methods of design and representation through the use of various media. Emphasis is on creative use of color and basic elements of design stressing their function and relationships through discussion and assigned problems.

ART 251: 3 s.h.
Jewelry
Study of two- and three-dimensional design concepts, with emphasis on individual solutions in the medium of metal. Both precious and common materials will be used. Traditional techniques of jewelry making will be explored.

ART 261: 3 s.h.
Waterbase Media
Investigation into the waterbase media (transparent, gouache, acrylic polymer) with the intent of establishing a broad base of understanding needed to accomplish personal goals.

ART 271: 3 s.h.
Ceramics
The study of hand and wheel methods of forming. Introduction to the principles of glaze formulation, kiln stacking, and firing.

ART 281: 3 s.h.
Sculpture
Exploration of three-dimensional design as related to sculpture. Basic techniques of stone and wood carving will be explored in addition to various methods of material build-ups (wood, plaster, plexiglas, metal, etc.)

ART 295: 3 s.h.
Crafts
Designed to prepare students to be more receptive to three dimensional media and materials. Provides the opportunity to explore various media and develop an understanding of crafts. Basic design of wood, paper, clay, metal, and plastics are studied.

ART 298: 3 s.h.
Puppetry
Devoted to the production and exploration of a variety of puppets, both traditional and contemporary. Concentrates on creative imagery to develop characterization with special emphasis on the utilization of puppets in free play, impromptu, stage, scripted productions, and special performances.

ART 300: 3 s.h.
Visual Studies in Aesthetic Experiences
Studies the philosophic theories of art, aesthetic experience, principles and criticism in the nature and comprehension of the character of arts; the artist and his/her relationship to life.

ART 302: 1-3 s.h.
Advanced Painting
The direction of the course of study is determined by the student and instructor. ART 201 or permission of instructor. May be taken for one through three credits. Dual listed with 511.

ART 311: 1-3 s.h.
Advanced Drawing
The direction of the course of study is determined by the student and instructor. Prerequisite: ART 210. May be taken for one through three credits. Dual listed with 510.

ART 332: 1-3 s.h.
Advanced Printmaking
The direction of the course of study is determined by the student and instructor. Prerequisite: ART 231. May be taken for one through three credits. Dual listed with 514.

ART 342: 3 s.h.
Advertising, Design and Lettering
Introduction to advertising. A comprehensive survey of basic principles and practices in advertising, their relation to economy, society, system of mass communication. Psychological and creative factors involved in advertising, design, campaign, media, and research are explored.

ART 345: 3 s.h.
Fibers
A creative application of the principles and elements of design and color theory to fibers and fabrics. Develops skills in textile techniques and an understanding of the functional and aesthetic possibilities of fibers and fabrics. Techniques include weaving, hooking, rya knotting, crochet, knitting, macrame, stitchery, tie dye, batik, block print, dye painting, spinning, quilting, basketry. Dual listed with 517.

ART 346: 3 s.h.
Fibers Workshop
Discuss and explore the principles of fabric construction as applied to practical uses, the functional and aesthetic uses of fibers, color, and design in textiles and how to design specifically for textile techniques, sources for materials and equipment, including the building of simple equipment.

ART 347: 1-3 s.h.
Weaving & Spinning
Exploration of spinning, weaving, and basic structure of fiber and fabric starting with basic skills and advancing to drafting and weaving your own fabric. May be taken for one through three credits.

ART 352: 1-3 s.h.
Advanced Jewelry
The direction of the course of study is determined by the student and instructor. Prereq: ART 251. May be taken for one through three credits. Dual listed with 516.

ART 362: 1-3 s.h.
Advanced Waterbase Media
The direction of the course of study is determined by the student and instructor. Prereq: ART 261. May be taken for one through three credits. Dual listed with 513.

ART 365: 1-3 s.h.
Computer Art
Introduction to the methods, techniques, and approaches of the computer for graphic application and provide an effective, workable knowledge of computer graphic design that can be applied to the area of creative expression and teaching. May be taken for one through three credits.

ART 372: 1-3 s.h.
Advanced Ceramics
The direction of this course of study is determined by the student and instructor. Prereq: ART 271. May be taken for one through three credits. Dual listed with 515. ART

382: 1-3 s.h.
Advanced Sculpture
Direction of the course of study is determined by the student and instructor. Prereq: ART 281. May be taken for one through three credits. Dual listed with 519.

ART 396: 1-3 s.h.
Advanced Crafts
Direction of the course of study is determined by the student and instructor. Prereq: ART 295. May be taken for one through three credits. Dual listed with 512.

ART 403: 1 s.h.
Seminar
Provides art students with the opportunity to exchange ideas, enhance critical dialectic, and to participate in activities relevant to the professional artist. The activities in this course will assist the student in developing his/her portfolio and exhibition skills.

ART 404: 1-6 s.h.
Special Problems in Art
Designed for students interested in extending their scope or gaining depth in specific academic areas related to art and/or education. Since needs and conditions change with each student, the requirements and restrictions are determined by and arranged with the chairperson. May be taken for one through six credits.

ART 445: 1-3 s.h.
Advanced Fibers
Direction of the course of study is determined by the student and instructor. Prereq: ART 345. May be taken for one through three credits.

ART 465: 1-3 s.h.
Advanced Computer Art
Introduction to the methods, techniques and approaches of the computer for graphic application. To provide an effective, workable knowledge of computer graphic design that can be applied to the area of creative expression and teaching. Prerequisite: ART 365. May be taken for one through three credits.

ART 489: 3-12 s.h.
Internship
A practical experience in a selected field of artistic endeavor designed to meet the student's needs. May be taken for three through twelve credits.

ART 497: 1-3 s.h.
Independent Study
May be taken for one, two, or three credits at one time.

ART 498: 1-3 s.h.
Advanced Puppetry
Direction of the course of study is determined by the student and instructor. Prereq: ART 345. May be taken for one through three credits.

ART 465: 1-3 s.h.
Advanced Computer Art
Introduction to the methods, techniques and approaches of the computer for graphic application. To provide an effective, workable knowledge of computer graphic design that can be applied to the area of creative expression and teaching. Prerequisite: ART 365. May be taken for one through three credits.

ART 489: 3-12 s.h.
Internship
A practical experience in a selected field of artistic endeavor designed to meet the student's needs. May be taken for three through twelve credits.

ART 497: 1-3 s.h.
Independent Study
May be taken for one, two, or three credits at one time.

ART 498: 1-3 s.h.
Advanced Puppetry
Direction of the course of study is determined by the student and instructor. Prereq: ART 298, similar background or permission of instructor. May be taken for one through three credits. Dual listed with 521.

BIOLOGY

Professor Flesch, chairperson
Professor Soderberg, Director of Fisheries
Professor Meyer, Director of Environmental Science
Associate Professors: Goff, Kirby, Maris, Sternick
Assistant Professor: Hensley
Instructor: Vore

The Department of Biology offers two degrees and 4 options leading to the baccalaureate degree. The department also offers a minor in biology.

The programs leading to either the Bachelor of Arts or the Bachelor of Science degree give a solid liberal arts background and foundation of science courses in botany, chemistry, zoology, biology, physics and mathematics. With close advisement you may concentrate in any one of several eras: botany, physiology, ecology, and cellular biology, among others. These programs meet the minimum requirements for medical schools. The Biology program is excellent preparation for graduate school (medical, dental, pharmaceutical, chiropractic and veterinary). Many biology graduates become technicians in hospitals and research labs, while others go into lucrative sales positions with medical and pharmaceutical supply companies. Many students have found positions in the environmental and ecological areas of the job market.

Those pursuing a B.A. degree are reminded that Standard 5 requires completion of a minor OR second year (201-202) foreign language proficiency.

The environmental program is for students interested in environmental issues. Students receive a general over-view of the field as well as practical skills. The program is designed to train scientists to look at environmental problems in an interdisciplinary way. Students will get a solid base in the environmental field as well as related courses in the arts and sciences.

Mansfield University is the only university in Pennsylvania to offer a fisheries degree and one of only 12 in the U.S. We have placed interns and graduates all over the U.S., establishing MU as a major center for undergraduate fisheries education. This B.S. degree program provides extensive course work in three major areas of fisheries science; aquaculture, fisheries biology, and fisheries management. Unique features of the program include summer internship and field courses and a required independent research project. Cooperative education and research agreements with the Research and Development Laboratory: U.S. Department of Interior and the Pennsylvania Fish and Boat Commission are an integral part of the fisheries program at Mansfield University. Graduates of the program meet the requirements for certification as an Associate Fishery Scientist by the American Fisheries Society.

The medical technology program includes three years of academic study on campus and one year (50 weeks) of clinical study at an approved hospital school of medical technology. The program prepares you to sit for the exam to become a registered medical technologist. Courses at MU range from general education, chemistry, biology, physics and mathematics. Clinical studies include clinical microscopy, hematology, and histological techniques. The student must apply to the hospital schools and be accepted by the hospital for the year of clinical study. Should you choose not to do clinical year or are not accepted to a hospital school the program is designed so you may complete a fourth year at Mansfield and receive a B.S. in biology degree. This curriculum is designed for capable and qualified students interested in a paramedical career. Most jobs in this profession are in hospitals, but there are some opportunities in industrial medical research. Persons with a four-year degree in this area have a great range of opportunity for career growth in related management and leadership positions.

The secondary education (B.S.E.) program prepares the student to enter the teaching profession with certification in both biology and with advisement, general science.

The minor in biology is designed to broaden and expand the knowledge of students especially those in biology related curricula. The requirements for a minor are a total of at least 20 hours of semester credit.

Biology Major (B.A.): 128 s.h.
BI 100, 110, 130, 350, 370, 496; CHM 11, 112; PHY 191, 192; GEL 122, MA 231; Electives to bring total biology credits to 41 s.h.

Biology Major (B.S.): 128 s.h.
BI 100,110, 130, 350, 370, 496. 3 s.h. from BI 310-319 or BI 330-339; 3 s.h. from BI 351-359; 3 s.h. from 371-379 or 470-471; 3 s.h. from 390-399, 450 or 470-471; CHM 111, 112, 301,302; PHY 191, 192; MA 231 Electives to bring total biology credits to 52.

Biology Major (B.S.): 128 s.h.
Environmental Option
BI 100, 110, 130, 350, 351, 370, 390, 496, 497, 498; Select one from BI 310-319; Select one from BI 330-339; Select one from BI 371-379 or 470-471; CHM 111, 112, 301, 302, 311, 332; PHY 191, 192; GEG 222,312, 321, 330; GEG/GEL 420; MA 231. Electives to bring total biology credits to 63 s.h.

Biology Major (B.S.): 128 s.h.
Fisheries Option
BI 100, 110, 130, 111, 112, 314, 315, 350, 351, 351, 353, 370, 371, 392, 393, 450, 491, 496; CHM 111, 112, 311, 332; PHY 191, 192; MA 231. Electives to bring total biology credits to 67.

Biology Major (B.S.): 128 s.h.
Medical Technology Option
BI 100, 110, 310, 370, 371, 374; CHM 111, 112, 301, 302, 311; PHY 191; MA 231; clinical Education 32 cr. hr. Electives to bring total biology credits to 64.

Biology Major (B.S.): 128 s.h.
Secondary Education Certificate
BI 100, 110, 130, 310, 350, 370, 371, 371, 372, 496; CHM 111, 112, 301, 302; PHY 191, 192; MA 231, 125 or 232; PSY 101, 321; GEG 111 or 222; Professional Education courses: ED 101, 202, 301, 302, 310, 313, 400, 401; ED/PSY 305; Spe 360. Electives to bring total biology plus professional education credits to 71 s.h.

COURSE DESCRIPTIONS

BSC 101: 4 s.h.
General Biology (G3, L)
An introduction to biological processes; study and discussion of these processes together with ecological aspects of life. The laboratory stresses demonstration and analysis of biological processes. 3 hours lecture, 2 hours lab per week. Offered every Fall and Spring.

BSC 102: 3 s.h.
Contemporary Biological Problems (G3)
There is no fixed syllabus. Topics are current and usually changed for each semester. Guest lecturers will be given time to present their specialties. 3 hours lecture per week. Prerequisite: BSC 101 recommended. Offered every Fall and Spring.

BSC 119: 4 s.h.
Human Anatomy (L)
A structural approach to the human organ systems. 3 hours lecture, 3 hours lab per week. Offered Fall even numbered years.

BSC 120: 3 s.h.
Human Physiology (L)
A functional approach to the human organ systems. 2 hours lecture, 2 hours lab per week. Offered Fall irregular times.

BSC 121: 4 s.h.
Human Anatomy and Physiology I (L)
This course presents an integrated approach to the study of the anatomy and physiology of the various organ systems of the human body. 3 hours lecture, 2 hours lab per week. Offered every Fall.

BSC 122: 4 s.h.
Human Anatomy and Physiology II (L)
BSC 122 is a continuation of BSC 121. This course completes an integrated approach to the study of the anatomy and physiology of the various organ systems of the human body. 3 hours lecture, 2 hours lab per week. Offered every Spring.

BSC 250: 3 s.h.
Field Methods in Environmental Biology (L)
A study of the field methods employed in measuring the biological qualities of the environment. Techniques applicable to surveys of the major aquatic and terrestrial habitats are taught through field experience. Analysis of data obtained and consideration of its significance is an integral part of the course. Prereq: BSC 101 or equivalent. BI 350 recommended. 2 hours lecture, 2 hours lab per week. Offered Fall even numbered years.

BI 100: 1 s.h.
Orientation to Biology
BI 100 is an orientation to scientific disciplines with a particular emphasis on biological sciences. It is a required course for all first-semester students in biology at Mansfield University. The course will feature guest speakers from within and outside the university who will address current trends and opportunities in the biological fields. 1 hour lecture, 1 hour recitation per week. Prereq: admission to Mansfield University Biology Program. Offered every Fall.

BI 110: 4 s.h.
Zoology (G3,L)
An evolutionary approach to the study of the animal kingdom, with attention given to the development of organ systems throughout the several phyla of invertebrates and vertebrates. Function, correlated with structural and taxonomic features is emphasized. Additional evidence for evolution is included through an introduction to genetics, embryology, and ecology. 3 hours lecture, 2 hours lab per week. Permission of instructor required. Offered every Fall.

BI 111: 3 s.h.
Fish Culture I
The technology of controlled husbandry of fish in flowing water. Major emphasis on solving problems relative to intensive aquaculture. 3 hours lecture per week. Offered every Spring.

BI 112: 3 s.h.
Fish Culture II
The technology of controlled husbandry of fish in standing water. Major emphasis on the science of extensive aquaculture. 3 hours lecture per week. Offered every Fall.

BI 130: 4 s.h.
Botany (G3,L)
Study of plant structures and function, development, growth, diversity and evolution. 3 hours lecture, 2 hours lab per week. Prereq: BSC 101 or BI 370. Offered every Spring.

BI 251: 1 s.h.
Tropical Marine Biology
Tropical marine communities are among the richest and biologically most diverse in the oceanic environment. This course is designed to provide insight into the biology/ecology of the mangrove, inter-tidal, and coral reef ecosystems. A week-long visit to the tropics which includes snorkeling and diving provides students with firsthand experience. 1 hour lecture, 1 hour lab per week. Prereq: permission of instructor. Offered Spring on irregular basis.

BI 310: 4 s.h.
Physiology
A systematic study of the life processes and functions of the animal body with particular emphasis on the mammalian vertebrate. 2 hours lecture, 3 hours lab per week. Prereq: BSC 101 or BI 370. Offered every Spring.

BI 312: 3 s.h.
Vertebrate Anatomy
A history of vertebrates and comparative systems through the major vertebrate groups correlating their historical development. 2 hours lecture, 4 hours lab per week. Prereq: BSC 101 or BI 370. Offered spring even numbered years.

BI 313: 3 s.h.
Entomology
Survey of the classification, structure, physiology, biology, and economic importance of insects. An introduction to the study of insects as a major segment of the biological community. Laboratory exercises on anatomy and practice in the techniques of insect identification. 2 hours lecture, 2 hours lab per week. Prereq: BI 110 or permission of instructor. Offered on an irregular basis.

BI 314: 3 s.h.
Ichthyology
A laboratory and field study of the fishes inhabiting the lakes and rivers of this area constitutes the major portion of this course. Collection, measurement, and chemical data as related to fish populations, management, and meristic characters will be collected and analyzed. 2 hours lecture, 2 hours lab per week. Prereq: BI 110, 312, 350, or permission of instructor. Offered every Spring.

BI 315: 3 s.h.
Fish Pathology
A consideration of the diagnosis and treatment of diseases commonly found in hatchery fish. Diseases of bacterial, viral, parasitic, and environmental origin are studied together with recommended treatment for each. 2 hours lecture, 2 hours lab per week. Offered Fall odd numbered years.

BI 316: 3 s.h.
Invertebrate Zoology
An integral evolutionary approach to the anatomy, physiology and ecology of protozoan, Protista, and animal phyla: Porifera through non-vertebrate Chordata. 2 hours lecture,2 hours lab per week. Prereq: BI 110. Offered Spring odd numbered years.

BI 317: 3 s.h.
Parasitology
A systematic study of host-parasite relationships. Emphasis involves life-cycles and comparative characteristics of parasitic protozoans, helminths and arthropods. 2 hours lecture,2 hours lab per week. Offered Spring even numbered years.

BI 330: 3 s.h.
Plant Physiology
A course designed to develop an understanding of the chemical and physical processes occurring in plants including respiration, photosynthesis, hormonal activity, osmosis, transpiration, mineral absorption, and translocation. The laboratory work will involve analysis of these functions. Prereq: BI 130 and 370 or permission of instructor. 2 hours lecture, 2 hours lab per week. Offered on an irregular basis.

BI 331: 3 s.h.
Local Flora
Taxonomic and ecological study of local flowering and non-flowering plants. 2 hours lecture, 2 hours lab per week. Prereq: BSC 101 or BI 130. Offered Fall even numbered years.

BI 350: 4 s.h.
Ecology
A study of the fundamental ecological principles of plants and animals in their environment. Prereq: BSC 101 or permission of instructor. 3 hours lecture, 2 hours lab per week. Offered every Fall.

BI 351: 3 s.h.
Limnology
Deals with basic concepts in the study of inland waters. Focus on biological, chemical, physical, and geological factors which determine biological productivity in natural waters. Prerequisite: BI 370 or permission of instructor. 2 hours lecture, 2 hours lab per week. Offered every Fall.

BI 352: 3 s.h.
Management of Small Impoundments
Theory, practice, and demonstration of managing farm ponds for optimal sport fishing. Prereq: 6 semester hours of college biology and consent of instructor. May be taken for graduate or undergraduate credit. 1 hour lecture, 4 hours lab per week. Offered Summer only bi-annually.

BI 353: 3 s.h.
Management of Streams and Large Impoundments
Theory practice, and demonstration of managing streams, rivers, natural lakes and large impoundments for optimal sport fishing. Prereq: 6 semester hours of college biology and consent of instructor. May be taken for graduate or undergraduate credit. 1 hour lecture, 4 hours lab per week. Offered Summer only bi-annually.

BI 354: 3 s.h.
Marine Biology
Includes studies basic to the biology and ecology of marine organisms. Practical applications such as biological/ecological sampling techniques and species identification are covered in the laboratory and on a coastal field trip. 2 hours lecture, 2 hours lab per week. Prereq: permission of the instructor, BI 350 recommended. Offered Fall odd numbered years.

BI 355: 3 s.h.
Paleobiology
Examination the origin and subsequent evolution of life over the past four billion years. The paleobiology and geologic history of major animal and plant groups are discussed. The course includes field trips to local and regional fossil sites. Prereq: BI 110, BI 130, BI 350.

BI 357: 3 s.h.
Epidemiology
The study of distribution and determinants of disease and injury in populations. This provides an introduction into community health and medical problems and services. Problem solving, case-control studies, and statistical analysis are emphasized. 2 hours lecture, 1 hour recitation per week. Prereq: permission of instructor. Offered on an irregular basis.

BI 370: 4 s.h.
Cell Biology
A study of the cellular level of life with emphasis on cellular structures and their relationship to movement, function, and energy transformation. Cellular genetics and the cellular approach to medicine are also discussed. Designed for biology majors. 3 hours lecture, 3 hours lab per week. Offered every Fall.

BI 371: 4 s.h.
Microbiology
An introductory course with an emphasis on the basic principles and concepts of microbiology concerning anatomy, classification, physiology and practical uses of micro-organisms. The laboratory section of this course will help the student develop aseptic technique. 3 hours lecture, 3 hours lab per week. Prereq: BI 370 or permission of instructor. Offered every Fall and Spring.

BI 372: 3 s.h.
Genetics
The study of basic principles and concepts of classical and molecular genetics will be covered. Emphasis will be on linkage analysis, structural, biochemical and molecular genetics. 3 hours lecture per week. Prereq: BI 370 or permission of instructor; corequisite: Chm 301. Offered every Spring.

BI 373: 2 s.h.
Genetic Research
The study and applications of cell and molecular genetics techniques to prokaryotes and eukaryotes. The students will become acquainted with the methodologies of modern genetic research and biotechnology. 1 hour lecture, 3 hours lab per week. Prereq: BI 370 & BI 372 or permission of instructor. Offered every Fall.

BI 374: 3 s.h.
Immunology
The study of antigens and antibodies encompassing the fields of the immune response, autoimmunity, allergic reactions, tumor immunology, tissue graft, and transplant biology. 2 hours lecture, 2 hours lab per week. Offered every Fall.

BI 375: 3 s.h.
Developmental Biology
A comparative survey of the development of representative animals from several phyla with emphasis on gamete formation, fertilization, embryonic development, organogenesis, growth, and biological aging. The laboratory combines examples of live plant and animal development with prepared slides of frog and chick embryology. 2 hours lecture and 3 hours lab per week. Prereq: BI 110 and 370 or permission of instructor. Offered Spring even numbered years.

BI 376: 3 s.h.
Animal Histology and Basic Microtechniques
A systematic study of the microanatomy of the vertebrate body starting with cells and tissues and working through the complete organ systems. 2 hours lecture and 2 hours lab per week. Prereq: BSC 101 or BI 370. Offered Spring odd numbered years.

BI 377: 4 s.h.
Food Microbiology
Basic microbiology of bacteria, yeasts, and molds with emphasis as to preparation and preservation of foods, water and waste control, disease mechanisms, and special food products. This course is a required course for transcript evaluation prior to taking the registry exam by the American Dietetic Association. 3 hours lecture and 2 hours lab per week. Prereq: at least junior standing in the Food Service Program (Dietetics) of the Health Sciences Department. Offered on irregular basis.

BI 390 3 s.h.
Biostatistics and Experimental Design
Presents to science students a description of the processes of experimental design, selection of appropriate statistical tests to analyze experimental data, and performance of these tests using current software. 2 hours lecture, 1 hour recitation per week. Prereq: MA 125 or permission of instructor. Offered Spring odd numbered years

BI 391: 3 s.h.
Evolution
Evolution studies the basic theory, mechanisms and pathways of natural selection. The course studies the development of evolutionary thought from antiquity to the current gradualist and punctuated equilibrium models. Both genetic and paleontological data are analyzed in examining micro-evolutionary scenarios. Offered Fall odd numbered years. Prereq: BI 111 or permission of instructor.

BI 392: 3 s.h.
Fish Management
A consideration of how fish populations become structured and the effects of various rates of exploitation upon these structures. A practical explanation of relative efficiencies of different fish management practices on maintaining fishery yields desirable to anglers is emphasized. 3 hours lecture per week. Offered Spring odd numbered years.

BI 393: 1 s.h.
Literature Review and Reports in Fish Culture
A study of scientific literature of fish culture, with special emphasis on its organization and retrieval and the writing of reports.

BI 450: 1-12 s.h.
Internship
The biology internship gives students the opportunity to apply knowledge and skills in the biological sciences while working with a public or private agency involved in aspects of applied biology. The practical experience thus acquired both supplements and reinforces the more academic aspects of biology stressed in the classroom.

Internship is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member and on-site supervisor who has special expertise in that field.

To register for an Internship, a student prepares a contract (available at the Academic Records Office) which must be approved by the faculty director, on-site supervisor, chairperson, Provost. Internship procedures must be completed at least 2 weeks before the beginning of the semester or summer session for which the Internship is sought. Offered every Fall, Spring, Summer.

BI 470: 3 s.h.
Molecular Biology
An examination of the principles and techniques underlying the chemical and physical aspects of living systems. A study of the structure and activities of biological molecules

which, properly integrated, constitute all forms of life. The laboratories will demonstrate techniques of the activities, separation, and analysis of these molecular forms. 2 hours lecture and 2 hours lab per week. Prereq: BI 370. Offered on an irregular basis.

BI 471: 3 s.h.
Cell Physiology
A study of a specialized field of cell biology which emphasizes phenomena dealing with the nature of the cell membrane and its transport activities, the reaction of cells to changes in environment, the mechanism of cell excitability and contraction, and other manifestations of cellular functioning such as nutrition, growth, and secretion. 3 hours lecture per week. Offered on an irregular basis.

BI 491: 1-3 s.h.
Aquaculture Research
A special research project is initiated by the student to increase his/her expertise in investigating a scientific problem and reporting the results in the form of a scientific paper. The research is conducted under the guidance of a faculty member who has special expertise in the subject area. May be repeated for credit. 3-9 hours of lab work per week. Prereq: consent of instructor. Offered every Fall.

BI 496: 1 s.h.
Seminar
Study and research projects involving investigation of recent literature in the field of biology; preparation of seminar papers on assigned problems. Senior biology majors and biology minors only. 1 hour recitation per week. Offered every Fall and Spring.

BI 497: 1-3 s.h.
Independent Study
Independent Study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field.

Independent Study is available in each curricular field. The appropriate curricular prefix precedes the course number, 497, and the credit hours vary from 1 to 3. Independent Study may be repeated for more than 3 credit hours total, but each independent Study project may be no more than 3 credit hours.

To register to take a course by Independent Instruction, a student prepares an Independent Study form (available at the Academic Records Office) which must be approved by a faculty director, department chairperson, and the Provost. Independent Study procedures must be completed 2 weeks before the beginning of the semester or summer session for which Independent Study is sought. Offered every Fall, Spring and Summer.

BI 498: 1 s.h.
Seminar in Environmental Science
An upper level seminar that integrates and applies concepts and skills taught in the basic courses of the Environmental Science emphasis. 1 hour lecture per week. Offered every Spring.

BUSINESS AND ECONOMICS

Associate Professor Welch, chairperson
Professors Kutty, Yacovissi
Associate Professors Carpenter, Mitchell, Solan
Assistant Professors Gaballa, Ghods, Havalchak

The department offers three A.S. two B.S. degrees in Business Administration and Travel and Tourism as well as a B.A., B.S. and a minor in Economics. The blend of general education and business education provides students with much needed skills in today's work environment: written and oral communication, work in groups and critical thinking. Specialized areas of study within business for the four-year degree program are called an emphasis and include, Accounting, International Business, Marketing and General Business.

The Accounting emphasis includes accounting issues as well as issues of policy and ethics. Students entering the General Business emphasis are advised to discuss their goals with their academic advisor who will help them choose courses that will prepare them to be competitive in their specific area of business. The International Business area emphasizes the global environment in which students may work upon graduation. The Marketing emphasis takes a solid business core as a foundation and adds a variety of marketing courses designed to prepare students for career opportunities in marketing related disciplines.

The Travel and Tourism Program is the only one of its kind in the state and one of only a few in the nation. It combines courses in business, management, human and physical geography, foreign language and travel and tourism. It is excellent preparation for executive track careers in this large and diverse industry.

The B.S. degree in Economics is designed to give a strong quantitative and business background in addition to public policy development obtained in the B.A. program. Students who wish to immediately enter the labor force or who are interested in advanced degrees in Economics or Business are advised to the choose the B.S. degree. This track has a strong business component which is designed to facilitate a double major in Economics and Business.

There is flexibility built into the design of the four-year degree programs to permit internships and minor studies. There is room to meet the individual needs and interests of students in the course work they select.

The department offers minors in Accounting, General Business, Travel and Tourism, and Economics. The department also offers a two-year degree program in Accounting, General Business and Travel and Tourism.

COURSE REQUIREMENTS

Business Administration Major (B.S.): 128 s.h.
ACC 110, 111, 315 or 350; BUS 230, 301, 330, 349, 350, 402, 410, 441, 451, 490; ECO 101, 102; MA 125,129, 170 or 231; SOC 101

Professional Emphasis Options
(One of the following options is required.)

Accounting: ACC 310, 311, 320, 400, ECO 311, PHL 202 and six credits in accounting electives.

General Business: BUS 302, Math 129 and 12 credits of business related electives.

International Business: BUS 321, 333, 403 or PSC 310, 422, ECO 333, MATH 125, 129 and 3 credits international studies electives.

Marketing: BUS 415, MATH 129 and 12 credits of marketing electives.

Business Administration: Travel and Tourism Major (B.S.): 128 s.h.
ACC 110, 111; BUS 160, 230, 330, 332, 370, 410; CIS 103; MA 125; TRT 102, 300, 312, 320, 321, 322, 410, 430, 460, 480; fifth semester language proficiency.

Economics Major (B.A.): 128 s.h.
ECO 101, 102, 301, 302; PSC 320, 328; 18 s.h. of ECO electives.

Economics Major (B.S.): 128 s.h.
ACC 110, 111; BUS 230, 301, 330, 402; ECO 101, 102, 301, 302, 305; MA 125, 170; PSC 320, 328; 12 s.h. of ECO electives; 6 s.h. of BUS electives

Minors

Business Administration Minor: 18 s.h.
ACC 110, BUS 130, 230, 301, 330 and 3 credit hours by advisement

Accounting Minor: 18 s.h.
ACC 110, 111, 310, 315 or 350 and 6 credit hours from the following: ACC 311, 314, 320, 351, 400, BUS 410 or ECO 101 or 102

Economics Minor: 18 s.h.
ECO 101, 102, 301 or 302, 3 s.h.in ECO electives

Travel and Tourism Minor: 18 s.h.
TRT 102, 300, 320, 430, three credit hours TRT elective and three credit hours by advisement

Two Year Degree Programs

Business Administration (A.S.): 60 s.h.
ACC 110, 111; BUS 130, 230, 301; 330, 410; Six credits in business related electives; ENG 230 or 330; MA 125, 129; ECO: 101 or 102; SOC 101

Business Administration: Accounting (A.S.):60 s.h
ACC 110, 111, 310, 311; BUS 410; 6 s.h in accounting electives; ENG 230 or 330; MA 125, 129; ECO 101 or 102; SOC 101; 6 s.h. in business electives

Business Administration: Travel and Tourism (A.S.): 60 s.h.
TRT 102, 201, 320, 430; ACC 110; BUS 160, 330, 410; CIS 103 or 203; MA 125; ENG 230 or 330

COURSE DESCRIPTIONS

Accounting

ACC 110: 3 s.h.
Principles of Accounting I
Introduces the accounting cycle; balance sheet and income statement preparation; accounting for cash, receivables, inventory, property, plant, and equipment; current liabilities.

ACC 111: 3 s.h.
Principles of Accounting II
A continuation of 110: long-term liabilities, owners equity of partnerships and corporations, and statement of cash flow. Introduces managerial accounting concepts, including manufacturing accounting and budgets, and financial ratio analysis.

ACC 310: 3 s.h.
Intermediate Accounting I
An intensive study of accounting principles and problems of fairly presenting a financial position; measurement of assets, liabilities; preparation of financial statements. Prereq: ACC 111.

ACC 311: 3 s.h.
Intermediate Accounting II
Further study of generally accepted accounting principles; corporate earnings per share, tax allocation, pensions, leases, inflation. Prereq: ACC 310.

ACC 314 (CIS): 3 s.h.
Automated Accounting Systems
An introduction to the development and implementation of an accounting information system. A real commercial system will be analyzed and then used by students to process accounting case studies. Prereq: ACC 315 or 350 and CIS 104 or 105.

ACC 315: 3 s.h.
Managerial Accounting
Examines management strategies to develop budgets and product costs and ways to control company costs and expenses. Prereq: ACC 111.

ACC 320: 3 s.h.
Advanced Accounting I
Examines partnerships, accounting, corporate mergers, and consolidated financial statements; non-profit accounting, foreign currency transactions, and other topics vary. Prereq: ACC 311 or permission of instructor.

ACC 350: 3 s.h.
Cost Accounting I
Explores budget planning, product costing, break-even and variance analysis, cost behavior, and cost allocation. Prereq: ACC 111.

ACC 351: 3 s.h.
Cost Accounting II
A continuation of 350. More cost behavior, decision models, regression analysis and linear programming applications, capital budgeting, economic order quantity, and ethical considerations are examined. Prereq: ACC 350 or permission of instructor.

ACC 390: 3 s.h.
Introduction to Federal Tax Accounting
Explores the application of the personal income tax law to the taxpayer as an individual and a business proprietor.

ACC 400: 3 s.h.
Auditing
A systematic process of objectively obtaining and evaluating evidence for the purpose of rendering an opinion and communicating the results to interested users. Prereq: ACC 320 or permission of instructor.

ACC 497: 1 - 3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

Business

BUS 130: 3 s.h. (G6)
Introduction to Business and Management
Studies an overview of the broad concept of business functions. Provides a foundation for understanding the relationship between essential activities of business. Helps students to determine and pursue their areas of interest and aptitude.

BUS 150: 3 s.h.
Women in Management
This course examines management structure and practice in relation to women; their goals, expectations, attitudes, and skills. The difficulties women encounter in being suc-

cessful in management will be analyzed and strategies which both men and women can use in changing the situation will be discussed. The course will emphasize case studies.

BUS 160: 3 s.h.
Small Business Management
Emphasizes aspects of management unique to small firms. Examines the characteristics of entrepreneurs and the process of strategic planning for small firms.

BUS 230: 3 s.h.
Management Principles
Acquaints the student with the functions and internal structure of modern business. Students will learn the techniques and systems employed by management to run an efficient organization.

BUS 301: 3 s.h.
Introduction to Finance
Examines basic concepts and techniques for identifying and solving elementary financial management problems. Topics include compound interest and time value of money, financial statement analysis, working capital management, cash flow analysis and capital budgeting, short-term financing, and stockholder equity valuation. Prereq: ECO 101 and MA 125.

BUS 302: 3 s.h.
Managerial Decision Making
Examines decision making as a multi-dimensional process. A variety of models and frameworks, quantitative and qualitative, are offered as a rational approach to managerial decisions. Prereq: BUS 230.

BUS 321: 3 s.h.
Environment and Management of International Business
Provides a managerial view point of the dynamics of international business. Topics covered include history and scope of international business, international trade theory, foreign direct investment, governmental influences on trade and regional economic integration, and socio-cultural and legal factors on MNC's. Prereq: BUS 230, ECO 101 and 102.

BUS 330: 3 s.h.
Marketing
Introduces the nature of marketing activities, consumer behavior and motivation. Focuses on an individual firm managing its marketing opportunities. Emphasis on development of product, price, promotion, and distribution policies in order to achieve planned marketing programs. Prereq: ECO 101 or 102 or permission of instructor.

BUS 332: 3 s.h.
Promotion in Marketing
Examines the promotion functions of the marketing program. It also helps students to analyze marketing communication opportunities, planning, and execution of the marketing program. Prereq: BUS 330.

BUS 333 (ECO): 3 s.h.
International Financial Management and Economics
Designed to study the mechanism of international business finance. Topics covered include the study of foreign exchange market, Eurodollar market, inflow and outflow of capital to and from the U.S., the effect of U.S. interest rate on imports and exports, and foreign exchange risk. Prereq: ACC 111, ECO 101, 102 and MA 125.

BUS 334: 3 s.h.
Marketing Research
Provides an in-depth examination of market research tools and techniques. Emphasis is on effectiveness of the total efforts in an atmosphere of tight budgetary and fiscal control. Also reviews successful efforts and stresses on practical application of theory. Prereq: BUS 330, MA 125 or permission of instructor.

BUS 349: 3 s.h.
Quantitative Business Analysis
Provides a systematic application of modern quantitative tools and techniques in practical situations. Topics include hypothesis testing, probability distribution, simple and multiple regression, and time series analysis. Prereq: MA 125.

BUS 350: 3 s.h.
Production Management
A study and use of analytical tools for demand forecasting, use of system design and measurement, inventory management, resource allocation, Linear programming, PERT/CPM and other specialized analytical techniques are used to deal with practical situations. Prereq: Ma 129 and 170.

BUS 370: 3 s.h.
Salesmanship
Provides students with entry level skills for a position in sales. Recognizes the necessary skills and characteristics that contribute toward greater sales effectiveness. Stresses the importance of establishing realistic goals and objectives; to manage your time and selling activities more effectively. The primary objective, however, is to gain an understanding of personal selling as a major function within the marketing and promotional mix of a firm. Prereq: BUS 330 or permission of instructor.

BUS 402: 3 s.h.
Corporate Finance
Focus on how individuals, financial institutions, and corporations make investment and financing decisions over multiple time period in an uncertain environment. Topics include theory of choice, efficient capital markets, CAPM and APT, capital budgeting under uncertainty, capital structure theories and policies, dividend policy, mergers and restructuring, and elements of international financial management. Prereq: BUS 301, CIS 103, ECO 102, MA 125 and 170 OR MA 231.

BUS 403: 3 s.h.
Business and American Foreign Policy
Provides a systematic look at the U.S. Foreign policy on international business. Topics covered include economic, social and political objectives of foreign policy, the impact of foreign policy on East-West trade relations, emerging market economies in eastern Europe and U.S. foreign policy, NAFTA, GATT, GSP and U.S. multinational corporations. Prereq: ECO 101, 102 and BUS 230.

BUS 410: 3 s.h.
Business Law I
Introduces the legal environment of business and its role in modern society. Topics include the formation of contracts, sales, negotiable instrument, bank deposits and collections, secured transactions, and business organization. Emphasizes social and ethical considerations, terminology, fundamental legal principles, and analysis.

BUS 411: 3 s.h.
Business Law II
Continued study of legal principles including agency, property, Federal Securities law, and bankruptcy. Emphasis is placed on the case law approach and problem solving. Prereq: BUS 410.

BUS 415: 3 s.h.
Marketing Management
Studies an in-depth examination of contemporary micro and macro marketing systems. Examines functional marketing decisions through the application of behavioral concepts, quantitative tools, and systems theory. Also presents advanced marketing techniques used by marketing organizations. Looks at individual behavior in order to evaluate the buying behavior of consumers with the objective of tailoring marketing strategies to meet consumers' needs and wants. Prereq: BUS 330, junior standing or permission of instructor

BUS 420: 3 s.h.
Topical Seminar/Marketing for Non-profit Organizations
Marketing for Non-Profit Organization.

BUS 421: s.h.
Topical Seminar/Marketing Channels of Distribution
Marketing Channels.

BUS 422: 3 s.h.
Topical Seminar/International Marketing
Examines the application of marketing concepts and strategies in the global markets. Emphasis is on adjusting and adapting a marketing program to foreign markets. Provides an understanding of differences between markets in different countries, its politics, legal, culture, trade practices, geography, and commercial policies. Studies export and import procedures and practices. Prereq: BUS 330 or permission of instructor.

BUS 423: 3 s.h.
Topical Seminar/Industrial Marketing
Industrial Marketing.

BUS 424: 3 s.h.
Topical Seminar/Sales Force Management
Sales Force Management.

BUS 425: 3 s.h.
Topical Seminar/Current Marketing Problems
Current Marketing Problems.

BUS 435: 3 s.h.
Investment Theory
Introduction to financial policy with special emphasis on the practical application of risk-return theory. Investment decisions by individuals and firms, in stocks and bonds and other securities, made on the basis of incomplete information in an uncertain environment , and financial derivatives is covered. Prereq: BUS 402, MA 125, 129, 170 or permission of instructor.

BUS 441: 3 s.h.
Financial Statement Analysis
Analyze financial statements issued by public held organizations. Emphasis is on the use of financial statements by creditors, investors, and those who are external to the enterprises. Topics include cash flow analysis, standards of financial analysis, and off-balance sheet financing. Prereq: ACC 111, BUS 301 and MA 125.

BUS 450: 1 - 12 s.h.
Organizational Internship
Supervised and evaluated participation in the regular activities of a business, government agency, or appropriate organization. In consultation with the supervising faculty member, the student is expected to prepare a comprehensive final report relating to the work

accomplished during the field experience. May be taken for one through 12 credits. NO MORE THAN SIX CREDITS COUNT TOWARD THE MAJOR.

BUS 451: 3 s.h.
Behavioral Approach to Management
An examination of theories, concepts, and research findings emerging from the various disciplines which study individual and group behavior within organizational systems. Prereq: Junior or senior standing.

BUS 490: 3 s.h.
Business Policy
Studies business problems and the formulation of policies to meet these problems from a general management viewpoint. Integrates knowledge from other courses to develop skills in policy formulation. Emphasizes long-range goals and administrative action. Case studies and simulation used. Prereq: Senior standing.

BUS 497: 1 - 3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

Economics

ECO 102: 3 s.h.
Principles of Microeconomics (G5)
An introduction to aggregate economics with emphasis on interdependence of sectors of an economy, aggregate concepts, determination of national income, and fiscal and monetary policy for stabilization

ECO 204: 3 s.h.
History of Economic Thought (G5)
A study of economic ideas from the eighteenth century to the present. A brief review of physiocracy and mercantilism followed by a closer survey of classical liberalism, pre-Marxist and Utopian socialism. Marxism, neoclassicism, institutionalism and other contemporary developments. Prereq: ECO 101 and 102 or permission of the instructor.

ECO 205: 3 s.h.
Contemporary Economic Problems (G5)
Examination of some of our crucial economics problems: unemployment, inflation, poverty; also some of the minor issues: right-to-work, national debt, and of several international concerns, e.g., the Common Market. Prereq: ECO 101 and 102 or permission of the instructor

ECO 301: 3 s.h.
Intermediate Macroeconomic Theory
A course in intermediate macroeconomic theory which develops models of the macroeconomy and analyzes the level and distribution of income, theories of unemployment, theories of consumption, theories of the public economy, theories of investment, the role of money, theories of crisis, theories of inflation and theories of growth from alternative paradigms. Prereq: ECO 101 or 102 or permission of the instructor.

ECO 302: 3 s.h.
Intermediate Microeconomic Theory
Introduction to the models of modern microeconomic theory, concentrating on individual and firm decision making and on industry equilibrium; a brief treatment of general equilibrium theory and welfare analysis. Prereq: ECO 101 or 102 or permission of the instructor.

ECO 305: 3 s.h.
Econometrics
The orientation of this course is toward the analysis and interpretation of economic data. This course will examine the general linear regression model and its application to economics, including violations of the classical model assumptions. Prereq: ECO 101 or 102 or permission of the instructor.

ECO 310: 3 s.h.
Business and Economic Forecasting
This course is an introduction to the various methods business managers use to forecast economic variables. Topics covered include regression techniques, exponential smoothing, decomposition of time series, moving averages, ARIMA models and VAR models. Prereq: ECO 101,102, and MA 125. ECO 305, MA 315, or BUS 349 are recommended.

ECO 311: 3 s.h.
Money and Banking
An inquiry into the monetary system of the U.S. Brief examination of historical development; the functioning of monetary policy is considered. Emphasis on the public.private nature of our banking system. Prereq: ECO 101 and 102 or permission of the instructor.

ECO 315: 3 s.h.
Public Finance
This course investigates theories of taxation; normative and positive theories of the public economy; various taxes; tax incidence and the distribution of income and wealth; taxes and microeconomic behavior; and the distribution of expenditure benefits. The course provides students with an understanding of the functions of taxation and public expenditures in the process of accumulation and legitimization. Prerequisite: ECO 101 and 102 or permission of the instructor

ECO 321: 3 s.h.
Comparative Economic Systems
Comparative analysis of different ways that countries solve their fundamental economic problems. Covers all systems from capitalism to communism. Prereq: ECO 101 and 102 or permission of the instructor.

ECO 325: 3 s.h.
Demographic Analysis
Demographic analysis is an introduction to the field of demography, with emphasis on the methods used to analyze the social and economic characteristics of human populations. Attention is paid to applications in a variety of disciplines, including marketing and social service planning. Technology employed includes computer mapping, electronic census data and geographic information systems.

ECO 333: 3 s.h.
International Economics
A study of the economic aspects of international relations with particular emphasis on the economic basis for trade, international monetary problems, commercial policy. and international agencies and agreements. Prereq: ECO 101 and 102 or permission of the instructor.

ECO 401: 3 s.h.
Labor Economics

Equal consideration is given to the market and institutional factor of labor management relations. The role of government as especially defined in major legislation is examined. Historical development of trade unions serves as an introduction. Prereq: ECO 101 and 102 or permission of the instructor.

ECO 405: 3 s.h.
Mathematical Economics
An introduction to using mathematical tools in economic analysis. Prereq: ECO 101, 102 and MA 109 or permission of the instructor.

ECO 420: 3 s.h.
Industrial Organization
Market structure, conduct and performance in the unregulated sector of the American economy. The characteristics and economics problems of regulated public utilities. Public policies related to promotion or restriction of competition. Prereq: ECO 101 and 102 or permission of the instructor.

ECO 450: 3-12 s.h.
Economics Internship
The Internship in economics provides students the opportunity to learn in a professional work setting. The Internship must involve the application of economic theory and provide an opportunity for work involving the use of academic skills.

ECO 485: 3 s.h.
Managerial Economics
A rigorous development and application of micro and macro economic theory with an emphasis on tools and techniques most useful to managers as an aid to decision making and forecasting of the economic environment in which firms must operate. Prereq: ECO 101 and 102 or permission of the instructor.

Travel and Tourism

TRT 102: 3 s.h. (G6)
Introduction to Travel and Tourism
Surveys the broad nature of travel-tourism with an emphasis on the interrelationships between traveller need-desire and travel fulfillment.

TRT 201: 3 s.h.
Computerized Reservations, Ticketing, Travel Agency Operations
Acquaint student with computerized airline reservations and ticketing procedures including domestic and international route structures, fare rules and construction, industry airline reference materials, and operations of airline computerized reservation systems. The student will also study the travel agency: its personnel, operations and management.

TRT 300: 3 s.h.
The Travel Consumer
Provides students with a comprehensive understanding of the traveller-tourist characteristics, psychographic, and the external influences that impact on potential markets for travel-tourism products.

TRT 312: 3 s.h.
International Tourism
Studies the international tourist and the ramifications of such tourism to both sending and host countries.

TRT 320: 3 s.h.
North American Destinations and Attractions
Acquaints the student with North American and West Indian travel destinations, attractions, and attractiveness. Study of the marketing and promotion of these destinations.

TRT 321: 3 s.h.
World-Wide Destinations and Attractions
Acquaints the student with the world-wide travel destinations, attractions, and attractiveness. Study of the marketing and promotion of these destinations.

TRT 322: 3 s.h.
Travel-Tourism Site Development
An analysis of natural/manmade tourism resources of value in travel-tourism. The development of resources into viable facilities will be considered in the contexts of changing socioeconomic and political considerations.

TRT 410: 3 s.h.
Topical Seminar in Travel-Tourism
Seminar topics vary to offer exposure to the multifaceted nature of travel-tourism. Topics include: the travel agency, wholesale tour development, issues in contemporary travel and tourism, and hospitality.

TRT 420: 3 s.h.
Travel/Tourism Project Seminar
Provides and opportunity to perform individual research, problem solving, and decision making in practical situations related to travel-tourism.

TRT 430: 3 s.h.
Tourism Suppliers and Wholesalers
A comprehensive study of travel-tourism suppliers, especially accommodations, food services, and the ground operators followed by a study of the wholesale travel business including personal experience in package/tour development and marketing. TRT 431: 3 s.h. Agency Cruise Management Examines the structure, organization, and operation of a retail agency cruise department or cruise-only agency.

TRT 460: 3 s.h.
Passenger Transport
An analysis of spatial principles and transport systems and networks; including factors of route location, theories of interaction, and the role of all forms of passenger transport in the travel-tourism economy.

TRT 461: 3 s.h.
Cruise Products
Designed to acquaint students with the complexity and diversity of the cruise products available in the marketplace including equipment, corporate products and marketing philosophy, destinations, and markets.

TRT 480: 3 s.h.
Contemporary Issues in Travel and Tourism
Survey of contemporary issues that are faced by the travel and tourism industry. Students become familiar with the issues through intensive study of the popular and trade press.

TRT 494: 3-12 s.h.
Internship
Provides an opportunity to apply skills and knowledge of travel-tourism under the supervision of professionals. Two individually designed projects are required. May be taken for three through twelve credits. Prereq: permission of instructor.

TRT 497: 1 - 3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

CHEMISTRY AND PHYSICS

Professor George, chairperson

Professors Ramasamy, Sidler

Associate Professors Ambrosio, Davis, Vayansky

Assistant Professors Chester, Ganong

Instructor Kozacko

The Department of Chemistry and Physics offers three programs which lead to the baccalaureate degree with a major in chemistry and three programs which lead to the baccalaureate degree with a major in physics. A Chemistry Minor and a Physics Minor are two additional options which are available.

The Chemistry Bachelor of Science degree (B.S.) is structured after the standards of the American Chemical Society and provides excellent preparation for advanced studies in medicine, dentistry, optometry, patent law, and related professions. Emphasis is placed on organic and inorganic chemistry, mathematics, and general education. Students who elect this degree are prepared to assume careers with food, pharmaceutical, oil, and chemical industries. Chemists are often involved in quality control, research, sales, monitoring employee environments, and agencies requiring analytical skills. Chemistry graduates are very competitive in the retail and wholesale professions. Over half of the chemistry graduates continue on to graduate school.

The Bachelor of Science degree (B.S.) in chemistry also offers a Biochemistry track which recognizes the recent growth of the biotechnology industry and attention in all industrial sectors to biological problems. Students receive broad training in traditional areas of chemistry with additional emphasis in the area of cellular and molecular biology. Graduates are well-prepared for a changing job market or for further study in chemistry, biology, or professional disciplines such as medicine, dentistry, or pharmacy. Career opportunities are available in medicine, dentistry, pharmacy, pharmaceutical, biotechnology, food, and cosmetics industries.

The Bachelor of Science in Education degree (B.S.E.) leads to certification as a qualified chemistry teacher in secondary schools. In addition, the student receives a sufficiently extensive background to continue on to graduate school for further studies in chemistry. A student who completes the program will graduate with a provisional certificate to teach in the Commonwealth of Pennsylvania. The current demand for high school chemistry teachers, both nationwide and in Pennsylvania, is high and the future looks bright for qualified people. In addition, the B.S.E. is the traditional entry-level degree for school administrative positions such as school counselors, principals, superintendents, and other educational specialists. Education and chemistry faculties are involved in advising in this program.

Cooperative Education is an opportunity available to junior and senior chemistry majors who are enrolled in any of the B.S. or B.S.E. programs. Cooperative education provides those students who are accepted into the program valuable career experience, a salary, and up to a maximum of 9 credits toward graduation. To fulfill the requirements of this program, the student usually spends just one semester plus one summer on location with a participating industry.

The Bachelor of Science degree (B.S.)in physics offers intensive training in classical and modern physics both in the classroom and in the laboratory. Students are taught the fundamental laws of nature and how to apply these principles to practical problems and situations. Some career opportunities for students who complete the B.S. degree program in Physics include: research assistants in government and industrial laboratories; technicians in the communication, electronics, and energy industries; and editors/writers

of technical manuscripts. This program is excellent preparation for graduate study in physics, engineering, law, and economics.

The Bachelor of Science degree in physics with **Pre-engineering** track is designed for students who want a broadly based physics and engineering education. This program is a cooperative endeavor between Mansfield University and five other institutions (Pennsylvania State University, University of Pittsburgh, University of Rochester, George Washington University, and Georgia Institute of Technology). Students spend three years at Mansfield completing the bulk of their required course work for the physics degree and then two years at an engineering school completing their course work for the engineering degree. At the culmination of the experience, the student will have earned a B.S. in physics from Mansfield and an engineering degree from the affiliated school. Some career opportunities for students who choose to participate in this program include mechanical, electrical, civil, and chemical engineers; consultants to engineering firms; and research assistants in government and industrial laboratories.

The Bachelor of Science in Education degree (B.S.E.) in physics is designed for those students who want to teach physics in secondary schools. This program provides the necessary course work for certification as a physics teacher. Advising is handled by both education and physics faculty. Many students enrolled in this program also choose to seek certification in mathematics.

The Department offers a minor in chemistry or physics to all interested persons who fulfill the basic requirements of either program. The minor, while not a degree program, is intended to permit students to develop their interest in chemistry or physics and thereby broaden their background as they acquire marketable skills.

COURSE REQUIREMENTS

Chemistry

Chemistry Major (B.S.): 128 s.h.

47-48 s.h. in chemistry: CHM 111, 112, 301, 302, 311, 321, 322, 332, 410(2), 420, 431, plus 6-7 s.h. selected from CHM 341, 421, and 432. Required related courses: MA 231, 232, 233; PHY 210 and 211.

Chemistry Major (B.S.): 128 s.h.
Biochemistry Track

41 s.h. in chemistry: CHM 111, 112, 301, 302, 311, 321, 332, 341, 410(2), plus 7 s.h. selected from 420 or 421 and 322 or 431. Required related courses: BI 370, plus 6-8 semester hours selected from BI 310, 371, 372, and 374; MA 231, 232, plus 233 or any other math elective; PHY 191 and 192 or 210 and 211.

Chemistry Major (B.S.E.): 128 s.h.
Secondary Education Certification

36-38 s.h. in chemistry: CHM 111, 112, 301, 302, 311, 321, 332, 410(2), plus 6-8 s.h. selected from CHM 322, 341, 420, 421, 431, and 432. Required related courses: MA 231, 125 or 232; PHY 191 and 192 or 210 and 211; and courses required by the Department of Education.

Chemistry Minor: 22-24 s.h.

22-24 s.h. in chemistry: CHM 111, 112, 301, 302, plus 6-8 s.h. from any 300 or 400 level CHM course except CHM 410, 490, or 497.

General Science Major (B.S.E.): 128 s.h.
Secondary Education Certification

6-8 s.h. of BI; 6-8 s.h. of CHM; 6-8 of earth/space science; 6-8 s.h. PHY; 6-8 electives. See Education for additional requirements.

Physics

Physics Major (B.S.): 128 s.h.
43 s.h. in physics: PHY 180, 210, 211, 311, 312, 313, 315, 316, plus 15 s.h. minimum selected from PHY 314, 317, 318, 319, 321, 322, 401, 402, 407, 408, 415, 416, 450, or 497. Required related courses: MA 231, 232, 233, and 311.

It is strongly recommended that students pursuing the Bachelor of Science degree in Physics minor in mathematics.

Physics Major (B.S.): 128 s.h.
Pre-engineering Track
37 s.h. in physics: PHY 180, 210, 211, 311, 312, 313, 315, 316, plus 9 s.h. minimum selected from PHY 314, 317, 318, 319, 321, 322, 401, 402, 407, 408, 415, 416, 450, or 497. Required related courses: CHM 111 and 112; MA 231, 232, 233, 280, 311, and 312.

It is strongly recommended that students pursuing the Bachelor of Science degree in Physics with the Pre-engineering emphasis minor in mathematics and take ECO 101 and ECO 102 as electives.

Physics Major (B.S.E): 128 s.h.
Secondary Education Certificate
24 s.h. in physics: PHY 180, 210, 211, 311, 312, 315; 3 s.h. minimum from PHY 313, 314, 316, 317, 318, 319, 321, 322, 401, 402, 407, 408, 415, 416, 450, or 497; plus additional courses required by the Department of Education. Required related courses: MA 231, 232, and 233, 311.

Physics Minor: 21 s.h.
21 s.h. in physics: PHY 210, 211, 311, 312, 315 and one additional 300/400 level physics elective. Required related courses: MA 231, 232, 233.

Astronomy

AST 105: 3 s.h.
Exploration of the Solar System (G3)
A descriptive astronomy course concerning contemporary astronomical and astrophysical theories about the solar system. 3 hours lecture. Offered fall semester.

AST 106: 3 s.h.
One Possible Universe (G3)
A descriptive astronomy course concerning contemporary astronomical and astrophysical theories about the universe. 3 hours lecture. Offered spring semester

AST 108: 1 s.h.
Observing the Autumn Sky (G3)
This module concentrates on the constellations, stars, and other celestial objects found in the evening sky during autumn. Students are also taught pertinent historical, legendary, and astronomical facts. 1 hour lecture.

AST 109: 1 s.h.
Observing the Winter Sky (G3)
This module concentrates on the constellations, stars, and other celestial objects found in the evening sky during winter. Students are also taught pertinent historical, legendary, and astronomical facts. 1 hour lecture.

AST 110: 1 s.h.
Observing the Spring Sky (G3)
This module concentrates on the constellations, stars, and other celestial objects found in the evening sky during the spring. Students are also taught pertinent historical, legendary, and astronomical facts. 1 hour lecture.

AST 111: 1 s.h.
Observing the Summer Sky (G3)
This module concentrates on the constellations, stars, and other celestial objects found in the evening sky during the summer. Students are also taught pertinent historical, legendary, and astronomical facts. 1 hour lecture.

AST 497: 1-3 s.h.
Independent Study
An activity initiated by the student to increase his/her already advanced knowledge of a topic. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. Prereq: permission of the instructor. May be taken for one, two, or three credits.

Chemistry

CHM 101: 4 s.h.
Introductory Chemistry (G3,L)
A treatment of fundamental principles for non-science majors. Does not meet degree requirements for biology, chemistry, or physics majors. 3 hours lecture, 1 hour recitation, and 2 hours of lab per week. Offered in fall semester.

CHM 102: 4 s.h.
Organic and Biochemistry (G3,L)
Deals with the principles of organic and biochemistry which are important and useful to non-science majors. Does not meet degree requirements of biology, chemistry, or physics majors. Prereq: CHM 101.3 hours lecture, 1 hour recitation, and 2 hours of lab per week. Offered in spring semester.

CHM 103: 4 s.h.
Chemistry and the Environment (G3,L)
Examines the theory and practice of chemistry and related topics. Topics treated will be integrated and historically developed. 3 hours lecture and 3 hours lab per week. Offered fall or spring semester.

CHM 104/PHY 104: 3 s.h.
Forensic Science (G3,L)
Forensic science is the application of science to law. This course will study the collection and identification of materials used as evidence. This will include an understanding of their physical and chemical nature and origins at the crime scene. Further the student will utilize the collected evidence to suggest scenarios for crime scenes.

CHM 110: 4 s.h.
Survey of Chemistry-Introductory, Organic, and Biological (G3,L)
A survey course for non-science majors. General, organic, and biological chemistry are emphasized. This course does not meet degree requirements for chemistry and biology majors. 3 hours lecture, 1 hour recitation, and 2 hours lab per week. Offered every semester.

CHM 111: 4 s.h.
General Chemistry I (G3,L)
Designed for science majors, this course is a study of the fundamental principles of chemistry from the standpoint of stoichiometry, gases, states of matter, solutions, and equilibrium theory. Laboratory sessions stress chemical principles discussed in the lecture. 3 hours lecture and 3 hours lab per week. Offered in fall semester.

CHM 112: 4 s.h.
General Chemistry (G3,L)
A continuation of CHM 111, kinetics, thermodynamics, oxidation-reduction, atomic and molecular structure, bonding, and periodic relationships are studied. The laboratory

work is an introduction to inorganic qualitative analysis and includes experiments designed to exemplify chemical principles. Laboratory sessions include one hour of lecture on theory and techniques of laboratory operations. Prereq: CHM 111. 3 hours lecture and 3 hours lab per week. Offered in spring semester.

CHM 201: 4 s.h.
Introduction to Biochemistry (L)
A one-semester course in elementary biochemistry for non-science majors having minimum preparation in organic chemistry. Prereq: CHM 102. 3 hours lecture and 2 hours lab per week. Offered in fall semester.

CHM 301: 4 s.h.
Organic Chemistry I (L)
Fundamentals of organic chemistry are presented. Modern theory, reaction mechanisms, and stereochemistry are included along with nomenclature, preparations, reactions, and properties of organic compounds. The laboratory stresses synthesis, chemical and physical properties, and an introduction to instrumental techniques. The laboratory period includes one hour of lecture on theory and techniques of laboratory operations. Prereq: CHM 112. 3 hours lecture and 4 hours lab per week. Offered in fall semester.

CHM 302: 4 s.h.
Organic Chemistry II (L)
A continuation of CHM 301. The laboratory period includes one hour of lecture on theory and techniques of laboratory operations. Prereq: CHM 301. 3 hours lecture and 4 hours lab per week. Offered in spring semester.

CHM 311: 4 s.h.
Quantitative Analysis (L)
An introductory course in analytical chemistry emphasizing classical titrimetric and gravimetric methods and related theories. Prereq: CHM 112. 3 hours lecture and 4 hours lab per week. Offered in fall semester.

CHM 321: 4 s.h.
Physical Chemistry I (L)
A study of the structure and function of molecules on the microscopic and macroscopic scale. This course deals with an introductory view of physical chemistry. It will be on the structure and physical properties of gases; basic principles of thermodynamics; the application of thermodynamics to equilibrium systems; kinetics; atomic and molecular structure; and spectroscopy. Emphasis is placed on the fundamental laws, theories, and models found useful in describing the physical properties and phenomena of chemical systems. Prereq: CHM 112 and 311, MA 231, PHY 210 and 211. 3 hours lecture and 4 hours lab per week. Offered fall of even years.

CHM 322: 4 s.h.
Physical Chemistry II (L)
It is the advanced study of the structure and function of molecules on the microscopic and macroscopic scale. This course deals with an advanced level view of physical chemistry. It deals with the structure and physical properties of real gases; advanced principles of thermodynamics; the application of differential calculus to thermodynamics; phases and phase rule; quantum mechanics, atomic structure; molecular structure; rotational-vibrational spectroscopy; electronic spectroscopy; and resonance spectroscopy. Emphasis is placed on the derivation of the fundamental laws, theories, and models found useful in describing the physical properties and phenomena of chemical systems using calculus. Prereq: CHM 321. 3 hours lecture and 4 hours lab per week. Offered spring of odd years.

CHM 332: 4 s.h.
Instrumental Analysis (L)
Principles and applications of instrumental methods in chemical and structural analysis. Studies include electroanalytical, spectrophotometric and chromatographic techniques. Prereq: CHM 311. 3 hours lecture and 4 hours lab per week. Offered in spring semester.

CHM 341: 4 s.h.
Biochemistry (L)
A study of carbohydrates, lipids, proteins, enzymes, nucleic acids, vitamins, and hormones in terms of structure, function, and synthesis in living systems. The laboratory includes the isolation, identification, and chemical behavior of biochemically important molecules. Prereq: CHM 302 or consent of instructor. 3 hours lecture and 3 hours lab per week. Offered in fall semester.

CHM 410: 1 s.h.
Seminar
Reports emphasizing chemical literature searches and/or current research. Prereq: Open to upper division chemistry majors only. Offered in spring semester. CHM 420: 3 s.h. Qualitative Organic Chemistry (L) The identification of organic compounds by various classical and instrumental techniques. Prereq: CHM 302. 2 hours lecture and 4 hours lab per week. Offered in fall semester of odd years.

CHM 421: 3 s.h.
Advanced Organic Chemistry
An advanced lecture course designed to deepen and expand knowledge in the field. Topics such as reactions, mechanisms, reactive intermediates, photochemistry, natural products, and spectroscopy may be stressed. Prereq: CHM 302. 3 hours lecture per week. Offered in spring semester of odd years.

CHM 431: 4 s.h.
Advanced Inorganic Chemistry (L)
A presentation of atomic structure and periodic properties. In addition to other topics, valence bond, molecular orbital, crystal field, and ligand field theories are treated in detail. Laboratory sessions include one hour of lecture on theory and techniques in the preparation of representative compounds. Prereq: CHM 321 and 332. 3 hours lecture and 4 hours lab per week. Offered in spring semester of even years.

CHM 432: 3 s.h.
Structural Chemistry
An advanced lecture course designed to study the structure of molecules. The shape of molecules and the nature of the bonds between their atoms will be used to predict molecular energy levels and vibrational modes, along with the associated spectroscopy. Prereq: CHM 302. 3 hours lecture per week. Offered in spring semester of even years.

CHM 490: 1-3 s.h.
Problems in Chemistry (L)
Involves the student in study projects under the direct supervision of an instructor. Library and laboratory research in selected problems. Prereq: Permission of instructor. May be taken for one, two, or three credits.

CHM 497: 1-3 s.h.
Independent Study
It is an activity initiated by a student to increase his/her already advanced knowledge. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. Prereq: Permission of instructor. May be taken for one, two, or three credits.

Physics

PHY 104/CHM 104: 3 s.h.
Forensic Science (G3,L)
Forensic Science is the application of science to law. This course will study the collection and identification of materials used as evidence. This will include an understanding of their physical and chemical nature and origins at the crime scene. Further, the student will utilize the collected evidence to suggest scenarios for crime scenes.

PHY 151: 4 s.h.
Conceptual Physics I (G3, L)
Designed for non-science majors as an introduction to the fundamental ideas of physics without the use of calculus. Topics covered include motion and energy, properties of matter, heat, and sound. No credit toward physics major. 3 hours lecture and 2 hours lab. Offered fall semester.

PHY 152: 4 s.h.
Conceptual Physics II (G3,L)
A continuation of PHY 151. Topics covered include: electricity and magnetism, light, nuclear physics, quantum mechanics, and relativity. No credit towards physics major. 3 hours lecture and 2 hours lab. Prereq: PHY 151. Offered spring semester.

PHY 165: 3 s.h.
Physics for the Allied Health Sciences (G3)
Designed to give students in the health support programs the physics background needed for their professional work. No credit towards physics major. 3 hours lecture. Offered spring semester.

PHY 180: 3 s.h.
Quantitative Methods of the Physical Sciences
Introduction to the mathematical analysis of physical problems. Problem solving using algebra, statistics, calculus, computer, and physical intuition skills are stressed. 3 hours lecture. Coreq: MA 231. Offered fall semester.

PHY 191: 4 s.h.
Physics I (G3,L)
The first of a two semester introductory physics sequence designed for students majoring in the life sciences. Topics covered include: classical mechanics, fluids, and thermodynamics. 3 hours lecture, 2 hours lab, and 1 hour recitation. Coreq: MA 231. Offered fall semester.

PHY 192: 4 s.h.
Physics II (G3,L)
Continuation of PHY 191. Topics covered include: electricity and magnetism, optics, and quantum theory. 3 hours lecture, 2 hours lab, and 1 hour recitation. Prereq: PHY 191 or PHY 210. Offered spring semester.

PHY 210: 4 s.h.
General Physics I (G3, L)
The first semester of a two semester calculus based, introductory physics sequence. Topics covered include Newtonian mechanics, gravitation, thermodynamics, and sound. 3 hours lecture, 2 hours lab, and 1 hour recitation. Coreq: MA 232. Offered spring semester.

PHY 211: 4 s.h.
General Physics II (G3, L)
Continuation of PHY 210. Topics covered include electricity and magnetism, waves, and optics. 3 hours lecture, 2 hours lab, and 1 hour recitation. Prereq: PHY 210. Coreq: MA 233. Offered fall semester.

PHY 311:
3 s.h. Modern Physics I
The first semester of a two semester modern physics sequence. Topics covered include special relativity and quantum theory. 3 hours lecture. Prereq: PHY 211. Coreq: MA 311 or permission of the instructor. Offered spring semester.

PHY 312: 3 s.h.
Modern Physics II
Continuation of PHY 311. Topics covered include statistical mechanics, solid state physics, nuclear physics, and particle physics. 3 hours lecture. Prereq: PHY 311. Offered fall semester.

PHY 313: 3 s.h.
Physical Mechanics I
The first semester of a two semester mechanics sequence. Topics covered include particle motion, motion of systems of particles, and statics. 3 hours lecture. Prereq: PHY 211. Coreq: MA 311.

PHY 314: 3 s.h.
Physical Mechanics II
Continuation of PHY 313. Topics covered include continuous media, Lagrange's equations, and small oscillations. 3 hours lecture. Prereq: PHY 313 and MA 311.

PHY 315: 4 s.h.
Analog Electronics (L)
The basics of analog electronics will be discussed in lecture and explored in the lab. Topics covered include Kirchoff's laws, Thevenin equivalent circuits, signal analysis, transistors, and amplifiers. 3 hours lecture and 3 hours lab. Prereq: PHY 211. Coreq: MA 311 or permission of the instructor. Offered fall semester

PHY 316: 4 s.h.
Digital Electronics (L)
The basics of digital electronics will be discussed in lecture and explored in the lab. Topics covered include binary systems, Boolean algebra, logic gates, information registers, memory circuits, and digital microprocessors. 3 hours lecture and 3 hours lab. Prereq: any physics course or permission of the instructor. Offered spring semester.

PHY 317: 3 s.h.
Physical Optics
This course explores the nature of light and its interaction with matter. Topics covered include wave phenomena, electromagnetic theory of light, reflection and refraction, interference, diffraction, polarization, and nonlinear optics. 3 hours lecture. Prereq: PHY 211 and MA 311.

PHY 318: 3 s.h.
Thermodynamics
An introduction to heat transfer in macroscopic systems. Topics covered include internal energy, entropy, thermodynamic engines, and phase transitions. 3 hours lecture. Prereq: PHY 211 and MA 311.

PHY 319: 3 s.h.
Introduction to Solid State Theory

An introduction to the physics of solids. Topics covered include crystal structure and bonding, lattice vibrations, free electron model of solids, semiconductors, magnetism, and superconductivity. 3 hours lecture. Prereq: PHY 312 and MA 311.

PHY 321: 3 s.h.
Selected Topics I
Topics are chosen by broad appeal to the students in conjunction with an interested faculty member. Design of the course depends on the nature of the topic. Prerequisites depend on the level of discussion of the topic.

PHY 322: 3 s.h.
Selected Topics II
Topics are chosen by broad appeal to the students in conjunction with an interested faculty member. Design of the course depends on the nature of the topic. Prerequisites depend on the level of discussion of the topic.

PHY 401:3 s.h.
Electricity and Magnetism I
This course explores the foundations of electromagnetic theory. Topics covered include electrostatics, dielectric materials, and electric current. 3 hours lecture. Prereq: PHY 211 and MA 311.

PHY 402: 3 s.h.
Electricity and Magnetism II
Continuation of PHY 401. Topics covered include magnetism, electromagnetic induction, Maxwell's equations, and radiation. 3 hours lecture. Prereq: PHY 401.

PHY 407: 3 s.h.
Introduction to Quantum Mechanics
An introduction to wave mechanics. The postulates of quantum theory and their application to problems, such as the quantum oscillator and the hydrogen atom, are explored. 3 hours lecture. Prereq: PHY 312.

PHY 408: 3 s.h.
Atomic and Nuclear Physics
This course examines the quantum mechanical basis of atomic and nuclear structure. Specific topics covered include atomic and nuclear transitions and radioactive decay. 3 hours lecture. Prereq: PHY 407.

PHY 415: 3 s.h.
Physics Research I
Undergraduate research project initiated by the student and completed in conjunction with a faculty member. Prereq: permission of the faculty member.

PHY 416: 3 s.h.
Physics Research II
Undergraduate research project initiated by the student and completed in conjunction with a faculty member. Course may be taken as a continuation of PHY 415. Prereq: PHY 415 and permission of the faculty member.

PHY 450: 1-3 s.h.
Current Scientific Phenomena
This course enables students to investigate current physics topics of interest. Credit hours and nature of the course depend on the particular topic. Prerequisites depend on the topic and level of discussion.

PHY 497: 1-3 s.h.
Independent Study
An activity initiated by a student to increase his/her already advanced knowledge of a topic. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. Prereq: permission of the instructor. May be taken for one, two, or three credits.

COMMUNICATION & THEATRE

Assistant Professor Leiboff, chairperson
Professor Lapps, Travis,H
Associate Professor Travis,P
Assistant Professor Carrish, Crum, Longoria, Nolan, Williams, Wright

The department of Communication and Theatre offers a B.S. with emphases in Broadcasting, Public Relations, Performance Arts, and Journalism and the B.A. in Speech Communication.

Mass Communication/Broadcasting (B.S.): 128 s.h.
COM 201, 203, 215, 220, 301, 304, 310, 340, 400, 440; JN 100; 24 s.h. in related electives.

Mass communications/Journalism (B.S.): 128 s.h.
COM 201, 340, 400, 440; JN 100, 420, 200, 210, 310, 320, 330; 24 s.h. in related electives

Mass Communications/Public Relations (B.S.): 128 s.h.
COM 201, 203, 204, 210, 320, 340, 401, 400, 420, 440; JN 100; 24 s.h. in related electives Mass Communications/Performance Arts (B.S.): 128 s.h. COM 200, 210, 203, 204, 303, 340, 400,440; JN 100; THT 212, 213, 314; 18 s.h. in related electives

Speech Communication (B.A.): 128 s.h.
COM 200, 203, 204, 325, 360, 400, 401, 440; 9 s.h. by advisement

Minor: General Theatre: 21 s.h.
THT 110, 210, 212, 214, 310, 312 or 313, 314

COM 101: 3 s.h.
Oral Communication
Objectives are to help the student to formulate his/her own ideas coherently, evaluate factual material, and use sound reasoning patterns in his/her preparation and attempts to communicate concepts orally; to determine and select the most effective means of expression in formal and informal speaking situations. Required of all Mansfield students.

COM 200: 3 s.h.
Oral Interpretation
An introductory course in presenting oral readings of various literary genres. It involves written analysis and practical experience in presenting selections, and the understanding and appreciation of oral interpretation as the communication of the readers impression of the authors intent as an artistic representation of his/her world in a piece of literature. Prereq: COM 101 or permission of instructor.

COM 201: 3 s.h.
Introduction to Mass Media
Studies the application of modern mass media, its origin, history, theory, principles, and philosophy to the areas of entertainment, instruction, and audience persuasion. Practical experience in the basic media is provided.

COM 203: 3 s.h.
Voice and Articulation
A study of basic physiology and phonetic analysis. It begins with transcription and evaluation of the student's speech. Subsequent attention is given to the correction of individual faults in voice and articulation habits in order to achieve clear and effective communication. Prereq: COM 101 or permission of instructor.

COM 204: 3 s.h.
Public Speaking
Advanced study of the construction, preparation, and delivery of the basic types of speeches and of their effect in public speaking situations. Prereq: COM 101 or permission of instructor.

COM 206: 3 s.h.
Forensics
Designed for the student interested in intercollegiate forensics. Students are involved in the theory and practice of competitive speaking in debating, extemporaneous speaking, original oratory, oral interpretation, and other forensic events. Prereq: permission of instructor. May be taken for a total of eight credits.

COM 210: 3 s.h.
Introduction to Public Relations
Study of the history, principles, and practice of public relations in business, education, government, and other organizations.

COM 215: 3 s.h.
Audio Production
An introductory course in the theory and operation of audio equipment and the creation of various audio presentations. Students write, produce, and perform in a series of individual and group projects.

COM 220: 3 s.h.
American Broadcasting History
An introduction to the American broadcasting system which examines the history of the medium and relates it to current issues in electronic media. The course utilizes historical programming examples, examines broadcast and cable technology, and develops student awareness of the importance of electronic media in our society. Prereq: COM 201.

COM 230: 3 s.h.
Writing for Broadcasting Media
A basic course in the writing techniques used in American radio and television. The course focuses on the development of original ideas for a range of commercial and promotional needs, including an original television series. Prereq: JN 100

COM 301: 3 s.h.
Television Program Design I
Study of the theoretical and practical aspects of television program conceptualization, scripting, production, presentation, and evaluation. Prereq: COM 201 and permission of instructor.

COM 303: 3 s.h.
Television and Radio Announcing
In-depth training in effective communication skills employed by broadcasters. Prereq: COM 201, 203, 215 & 301.

COM 304: 3 s.h.
Television Program Design II
Study of the theoretical and practical aspects of television program conceptualization, scripting, production, editing, presentation, and evaluation. Emphasis is on the application of these elements in a variety of program situations. Prerequisite: COM 201 and 301.

COM 310: 3 s.h.
Electronic Media Management
Presents current practices, problems, and issues of electronic media management. Lectures, readings, and class presentations by industry representatives provide an introduction to the business aspects of electronic media. Prereq: COM 201 and 220.

COM 320: 3 s.h.
Advanced Public Relations
An advanced level investigation of the theory and practice of public relations. Special emphasis is placed on discovering the various publics through simulated public relations campaigns. Prereq: junior standing.

COM 325: 3 s.h.
Interpersonal Communication
Development of cognitive, affective, and psychomotor skills as they relate to interpersonal communication. Student participation in both the discussion of principles and application of interpersonal exercises.

COM 330: 3 s.h.
Parlimentary Procedure
Examines history, philosophy, and practice of parliamentary procedure as it applies to our democratic society. Emphasis is on the development of procedures and includes practice in the use of the theories.

COM 340: 3 s.h.
Professional Issues in Communication
Research, prepare, present, and evaluate contemporary issues in the communication field. Investigate professional communication associations and career paths in respective emphases. Prereq: COM 101, 201, and JN 100.

COM 350: 3 s.h.
Broadcast Workshop
Emphasizes the production of programs designed for public reception. Students will work under professional production team discipline in the areas of format development, advanced writing production, and post production. Prereq: COM 201, 301 and 304.

COM 360: 3 s.h.
Organizational Communication
Examines the process of communication within organizations. Investigates formal and informal communication networks to gain a greater understanding of the vital role that they play within organizational structures and operations. Prereq: COM 101.

COM 400: 3 s.h.
Communication Theory
Study of the major concepts, principles, models, and theories of human communication including, General Systems Theory, General Semantics, role behavior, the diffusion of innovation, the role of language in communication, linguistics, and the psychology of communication. These provide a framework for an investigation of the process of communication on the intrapersonal, interpersonal, small group, one-to-many, and mass media levels.

COM 401: 3 s.h.
Persuasion
A study of the psychology of persuasion and its use in a free society, and propaganda and its effect on our daily living. Prepares the student to evaluate persuasive messages, to use persuasion effectively, and to appreciate the ethics of persuasion.

COM 403: 3 s.h.
Speech Writing
Practical experience in the techniques of speech writing for speakers and public relations practitioners. Emphasis is placed on actual speech writing situations.

COM 404: 3 s.h.
Television Reporting
Focus is on concepts and practice of broadcasting techniques as applied to live and taped television performance. Prereq: COM 203, 303 and 304 or permission of instructor.

COM (THT) 410: 6 s.h.
Internship
Supervised and evaluated participation in varied settings provides practical application of theoretical principles. May be taken for six through fifteen credits.

COM 415: 3 s.h.
Contemporary American Humor
A critical study of contemporary humor employing a variety of communication theories of analysis and criticism. Areas such as television, film, writing, and stand-up will be examined. Prereq: COM 101.

COM 420: 3 s.h.
Public Relations Workshop
Practical study of public relations. Each student is involved in planning and directing a public relations program organization. Prereq: COM 203, 210, 320 and 401.

COM 435: 3 s.h.
International Broadcasting
Designed to familiarize students with international broadcasting systems and global communication issues. Lectures, research projects, and classroom presentation of international radio and television programming examples are used to broaden perspectives and international understanding. Prereq: COM 201 and 220.

COM 440: 3 s.h.
Communication Law
Provides a background in communication law as it affects the conduct of the print and electronic media industries. Will study landmark cases and investigate legal industries and ethical issues which confront communication professionals. Prereq: COM 201.

COM (THT) 450: credit assigned
Special Projects
A project initiated by the student to increase his/her knowledge in an advanced area not offered as a regular class. Intensive study of a subject area under the guidance of a faculty member who has special expertise in that subject. Prereq: permission of instructor. May be taken for one through three credits, but not to exceed nine credits total.

COM 497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

Journalism

JN 100; 3 s.h.
Journalism
Fundamentals of reporting, editing, and writing feature articles. Emphasis on news evaluation, style, and structures of news stories.

JN 200: 3 s.h.
Crisis Reporting
Critical examination of the way major current issues are handled by the various media. Practice in writing, investigating, and interviewing. Prereq: JN 100.

JN 210: 3 s.h.
Media Design
Studies the principles of newspapers, magazine, book, and television design. Practice in designing pages for the print media and in writing copy for programs for the electronic media. Prereq: JN 100.

JN 249: 3 s.h.
Criminal Justice and the Press
Instruction in reporting police news. Emphasis will be given to the examination and evaluation of the contrasting viewpoints of reports, law enforcement officials, and the accused in the development and content of news stories. Prereq: CJA 100 and PSC 101.

JN 310: 3 s.h.
Interpretative Journalism
Examines the content, style, and techniques of contemporary interpretative news reporting propaganda, ethics, and editorial columns. Practice in writing interpretative articles. Prereq: JN 100.

JN 320: 3 s.h.
Creative Journalism
Introduces the theory and practice of the New Journalism. Students will explore the culture and resources of the region, gathering materials for publishable articles. Prerequisite: JN 100.

JN 330: 3 s.h.
Press Performance Evaluates the role of the contemporary American press in a modern democracy. Such problems as violence, sensationalism, and political bias will be investigated. Prereq: JN 100.

JN 495: 1-12 s.h.
Internship
An "internship" or work with local newspaper. Practice working on a publication, with attention given to the student's journalistic interest (news reporting, photography, editing) and the major aspects of production. May be taken for one through twelve credits. Prereq: JN 100.

Theatre

THT 110: 3 s.h.
Introduction to Theatre
Survey of drama and the art and craft of the theatre. Content does not necessarily include practice in applied theatre.

THT 210: 3 s.h.
Stagecraft
Examines principles, procedures, and techniques of theatrical production including: background organization and planning, construction, painting, rigging, and operation of scenic elements, and the use and operation of lighting equipment. The laboratories are connected with the department's productions.

THT 212: 3 s.h.
Fundamentals of Acting I
Introduces basic techniques and methods of acting. Designed for the beginning actor. No previous acting experience is necessary.

THT 213: 3 s.h.
Fundamentals of Acting II
Continuation of 212. Emphasis is on scene study, rehearsal, and performance techniques. Prereq: THT 212 and permission of instructor.

THT 214: 3 s.h.
Make-Up
Designed to familiarize the student with the basic principles and technique of stage make-up, the various types of make-up and how to apply it in order to enhance a dramatic characterization.

THT 215: 3 s.h.
Survey of Theatre History I
The development of the theatre from its primitive origins to the 19th century.

THT 216: 3 s.h.
Survey of Theatre History II
The development of the theatre from the 19th century to recent movements in the 20th century.

THT 300: 3 s.h.
Advanced Acting I
Advanced course in the methods and presentations of acting styles, from the ancient Greeks to Shakespeare. Particular emphasis will be placed on performance. Prereq: THT 212 and 213.

THT 301: 3 s.h.
Advanced Acting I
Continuation of 300. Covers Restoration to the Modern Theatre.

THT 310: 3 s.h.
Fundamentals of Directing
Basic principles and procedures of directing a play. Includes directing of workshop scenes and a one-act play presented to a public audience. Prereq: THT 210, 212, 215, 216 and permission of instructor. May be taken for a total of six credits.

THT 312: 3 s.h.
Stage Lighting
The history and basic techniques of lighting for the stage. Lighting designs and control are stressed. Includes participation in lighting major productions. Prereq: THT 210.

THT 313: 3 s.h.
Scene Design
Study and practice in the principles and technique of scenic design in the modern theatre. Emphasis is on knowledge and sense of the theatre and the relationship of the contribution of the scenic designer with those of the actor, director, and playwright. Prereq: THT 210, 317 or permission of instructor.

THT 314: 3 s.h.
Play Production Practices
Concentrates on the various aspects of theatre production from script to performance. An intensive experience in theatrical production for public performance. Synthesis of acting, design, technical and managerial elements in total production with emphasis on "hands-on" experience.

THT 315: 3 s.h.
Scene Painting & Advanced Stagecraft
Training in the techniques and practices of contemporary scenic arts. Laboratory time will allow the student to demonstrate a proficiency of the techniques studied.

THT 316: 3 s.h.
Theatre & Stage Management
Fundamental aspects of management designed for the serious student of theatre. Provides concentrated experiences in major college productions as well as responsibilities in box-office and publicity.

THT 317: 3 s.h.
Drafting and Scenic Rendering
A study of techniques and conventions of drafting and full color rendering for the theatre technician-designer. Prereq: THT 210.

THT 318: 3 s.h.

Advanced Lighting
Investigation into contemporary practices, equipment, and procedures for lighting all types of theatrical and entertainment events. Includes projects in the field. Prereq: THT 312.

THT (COM) 410: 6-15 s.h.
Internship
Supervised and evaluated participation in varied settings provides practical application of theoretical principles. May be taken for six through fifteen credits.

THT 417: 3 s.h.
Play Structure and Analysis
Analysis of selected plays and their significance in the development of the dramatic form, including the study of the social and cultural conditions in which the playwright lived and worked.

THT 418: 3 s.h.
Playwriting
Studies the principles and theories of dramatic structure. Practice in writing for the stage. Prereq: THT 215, 216, 310, 417, and/or consent of instructor.

THT (COM) 450: 1-3 s.h.
Special Projects
A project initiated by the student to increase his/her knowledge in an advanced area not offered as a regular class. Intensive study of a subject area under the guidance of a faculty member who has special expertise in that subject. Prereq: Permission of instructor. May be taken for one through three credits not to exceed nine credits.

THT 497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

CRIMINAL JUSTICE ADMINISTRATION

Associate Professor Liley, chairperson
Professor Ryan
Associate Professor Robarge

The Department of Criminal Justice Administration offers programs of study leading to the following degrees: Bachelor of Science in Criminal Justice Administration, Associate of Science in Criminal Justice Administration, and a minor. Our B.S. program is one of Pennsylvania's oldest criminal justice programs. We are also one of MU's largest programs. CJA provides a systems-based background with a core curriculum covering the criminal justice areas of lawenforcement, courts, corrections and juvenile delinquency.

Depending on a particular career interest, courses may be selected from the following areas: police administration, investigation and interrogation, criminalistics, probation and parole, private security, organized crime, criminology, criminal law, and juvenile justice administration.

Most students complete a three month summer practicum within a criminal justice agency. Internships are available at over 100 selected sites in the N.E. United States.

Career Areas: Our CJA graduates are presently federally employed by U.S. Immigration, DEA, FBI, Secret Service and serve as U.S. marshals. Numerous graduates work in state and municipal law enforcement agencies as well as correctional, juvenile justice, and private security settings. Top graduates often go on to graduate school and law studies.

COURSE REQUIREMENTS

Criminal Justice Administration (B.S.): 120 s.h.
CJA 100, 201, 202, 324, 395, one course from the following: CJA 326, 340, 359 or 453; 21 sh of CJA electives by advisement. Required related courses: one PSC, PSY and SOC course.

Criminal Justice Administration (A.S.): 61 s.h.
CJA 100, 201, 202 and 12 sh of CJA electives. Required related courses: one PSC, PSY and SOC course.

Criminal Justice Administration Minor
CJA 100, 201, 202 and 9 sh upper level CJA electives. Total 18 s.h

Course Descriptions

CJA 100: 3 s.h.
Introduction to the Administration of Criminal Justice
An introduction to the field of criminal justice, its major components, roles and functions. Emphasis is placed upon concepts of law and a behavioral science description of the police, courts, and corrections.

CJA 201: 3 s.h.
Introduction to Corrections Administration
Origin and history of incarceration practices and procedures; associated organizational, criminological and phenological concepts; categories of inmates and laws affecting classification; special custody problems and treatment programs, staff organization; professional, administrative and custodial personnel training, recruitment and promotions; interagency relationships and cooperation; release programs, furloughs, work-release, and final discharge.

CJA 202: 3 s.h.
Introduction to Law Enforcement
Introduction to law enforcement problems and practices; its legal, political, and historical framework. An analysis of police organizations and their relationship with other criminal justice and social agencies.

CJA 240: 3 s.h.
Organized Crime in America
An investigation into the historical background and development of organized crime as well as the structure and operations of criminal syndicates. Specific types of organized crime will also be explored with a final analysis of the legal responses to this social problem.

CJA 251: 3 s.h.
Police-Community Relations
An examination of the major issues and problems surrounding police community relations including the rule of law; individual and societal aspects of police-community relations; police and minority groups; social change and law enforcement; principles of programming in police-community relations; police discretion; police role, police problems.

CJA 252: 3 s.h.
Investigation and Interrogation
An introduction to the fundamentals of criminal investigation, rules of evidence, sources of information, observations, descriptions, and identifications, including collection, preservation, and processing of physical evidence, records, reports, statements, case preparation, surveillance and undercover techniques, modus operandi information.

CJA 256: 3 s.h.
Probation, Parole and Community Corrections
Examination of community treatment in the correctional process; contemporary usage of presentence investigation; selection, supervision, release of probationers and parolees; diversion, work release, furlough, halfway houses, and jails.

CJA 257: 3 s.h.
Correctional Institutions and Services
Intensive analysis of extramural programs for juvenile and adult offenders; professional functions in the total correctional process.

CJA 276: 3 s.h.
Criminology: A Multidisciplinary Approach
Acquaint students with the nature and forms of crime. Major areas of concern are the functions of law, the scientific study of crime, criminological topologies, classical and positivistic definitions of crime, comparative criminology, and the problem of punishment.

CJA 301: 3 s.h.
Industrial Security
Examines basic industrial security concepts, principles, and methodologies. Provides knowledge of procedures and programs currently applied in industrial security management.

CJA 324: 3 s.h.
Administration of Justice
An examination of the role and function of the judiciary in the criminal justice decision-making process. It includes a survey of America's court system and an in-depth analysis of its major components. Emphasis will also be placed on important interactions within the judicial system and its major interrelationships with other criminal justice agencies.

CJA 326: 3 s.h.
Court Management
Examines the major problem areas of court administration; judges as administrators; budgeting, calendars, case flow management; jury selection, juror utilization; records management, legal forms, forms design; personnel practices and administration. This course is problem solving oriented. Field trips, investigation, and guest lectures will supplement the materials presented in class.

CJA 336: 3 s.h.
Criminalistics
Examines the phase of the criminal investigation process concerned with physical evidence. Major emphasis will be placed upon legal and technical consideration in the recognition, collection, and preservation of various categories of physical evidence and the process through which it is transmitted to the crime laboratory. Attention will also be given to knowledge requirements of the evidence technician in terms of the capabilities and techniques of the crime laboratory. Prereq: CJA 252 or permission of instructor.

CJA 340: 3 s.h.
Management of Volunteers in CJA
Develops an understanding of the importance of the volunteer movement in criminal justice administration. It shows how volunteers have been and can be used in criminal justice agencies. Analyzes the motives of volunteers and assists the professional in the screening and training of volunteers. Recruitment and rewarding of volunteers is also discussed.

CJA 354: 3 s.h.
Criminal Law
Principles, theories and doctrines of the law of crimes with a unified study of legal defenses; elements and proof in crimes of frequent concern; importance of criminal law at the enforcement level is considered from crime prevention to the courtroom; case analysis.

CJA 356: 3 s.h.
Law of Corrections
Analysis of the legal dimension of sentencing; the correctional treatment of persons under sentence, and conditional release and revocation with emphasis on administrative decision-making in the correctional process.

CJA 357: 3 s.h.
Correctional Strategies
Offender classification; special offender groups, treatment, custody, recidivism, and strategies designed to change offender conduct.

CJA 359: 3 s.h.
Juvenile Justice
Structure and format of the juvenile justice system-police, courts and corrections; analysis and description of the organizational structure of each of the subsystems of the juvenile justice process; introduction to juvenile justice literature and research findings.

CJA 395: 3 s.h.
Deliquency and the Criminal Justice System
Expose students to the full impact of the delinquency problem. Theories of delinquency causation, prevention, and rehabilitation will be critically examined.

CJA 401: 3 s.h.
Advanced Industrial Security
Advanced course of industrial and government security concepts, principles, and methodologies; knowledge of relationships of industrial security procedures in business organizations to the Department of Defense National Security Program.

CJA 405: 3 s.h.
Research Methods in Criminal Justice
An introduction to research methodology with particular emphasis placed on criminal justice issues. Examines research theory, its major components, and its application to various criminal justice agencies including the police, courts, correctional institutions, etc.

CJA 450: 1-12 s.h.
Practicum in Criminal Justice Administration
Educational and work experience in an actual criminal agency-law enforcement, courts, corrections or industrial security; applicable agency research project; periodic conference with criminal justice agency personnel and faculty advisor. May be taken for one through twelve credits.

CJA 453: 3 s.h.
Police Organization and Administration
Organizational theory,budgeting, personnel management planning, information management theory, civil service, unions, management prerogatives,supervision, executive development, manpower distribution schemes, and policy development and execution as applied in both small and large law enforcement agencies.

CJA 496: 3 s.h.
Selected Topics
An intense analysis of a selected topic in law enforcement, adjudication, and correctional fields. Intended for advanced undergraduates, graduates, and inservice professionals. May be taken for a total of nine credits.

CJA 497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

EDUCATION

Professor Putt, chairperson
Professors Cleland, Heck, Plowcha, Wyrda
Associate Professors Brucklacher, Fuller, Kyofski, Remy, Woolley
Assistant Professors Fernsler, Musselman, Rudy

Elementary Education

Elementary Education at Mansfield University is a 4-year program leading to the degree of Bachelor of Science in Education (B.S.E.). An important element of the program is the sequence of public school field experiences in the freshman, sophomore, junior and senior years. The Education Department recommends strongly that students planning to major in elementary education build a background of experiences with young children. The program focuses on the elementary teacher as a reflective decision maker and provides the student with depth in subject matter, training in methodology, and an extensive variety of field experiences. As a part of the program, the student completes a semester-long student teaching assignment in two different elementary school classrooms. The program also enables the student to include a 15-17 credit hour Area of Concentration in one of the following: Early Childhood, Exceptional Children, Foreign Languages, Humanities, Instructional Technologies, Natural Sciences, Mathematics, and Social Sciences. Students interested in a program leading to dual certification in elementary education and special education should contact the Department Chairperson.

COURSE REQUIREMENTS

Elementary Education (B.S.E.): 128 s.h.
K-6 certification
Ed 101, 301, 302, 305, 401, 402; ELE 202, 301, 350, 383, 384, 386, 387, 400, 403, 425; PSY 101; SPE 360

Areas of concentration

1. **Early Childhood Education: 17 s.h.**
2. **Exceptional Children: 15 s.h.**
3. **Foreign Languages: 15 s.h. (French, German, Spanish)**
4. **Humanities: 15 s.h. (Art, Communications, English, History, Music, Philosophy, Theatre)**
5. **Instructional Technologies: 15 s.h.**
6. **Mathematics: 15 s.h.**
7. **Natural Sciences: 15 s.h. (Astronomy, Biology, Chemistry, Geology, Physics)**
8. **Social Sciences: 15 s.h. (Anthropolgy, Economics, Geography, Political Science, Psychology, Sociology)**

Secondary Education

The Secondary Education curriculum is a 4-year program leading to the Bachelor of Science in Education (B.S.E.) degree. The curriculum is the combined responsibility of the Education Department and the appropriate academic departments. A secondary education major is advised both by a faculty member of the Education department who assists in completing certification requirements and by faculty member of the content area department of the student's major. The program focuses on the secondary teacher as reflective decision maker and provides students in the content areas with depth in subject matter, training in methodology, and a variety of public school field experiences that includes a semester-long student teaching experience in two different classrooms.

Students who complete the secondary education program and obtain appropriate scores on required tests may apply for a provisional certification to teach in the secondary schools of Pennsylvania. Certification programs include English, foreign languages (French, German, Spanish), mathematics, science (biology, chemistry, earth and space science, general sciences, physics), and comprehensive social studies (with a concentration of course-work in one of the following areas: geography, history, political science, psychology, sociology/anthropology, economics).

COURSE REQUIREMENTS

Secondary Education: 128 s.h.

COURSE DECRIPTIONS

ED 090: 3 s.h.
College Study Skills
Designed to develop effective study skills for assignments and classes requiring listening, note-taking, test-taking, or library use and students needing assistance in effective use of college textbooks. DOES NOT COUNT TOWARD TOTAL CREDITS NEEDED FOR GRADUATION.

ED 100: 3 s.h.
Schools and Society
An exploration and examination of the critical issues/concerns in education and demonstrating knowledge about education in today's society.

ED 101: 1 s.h.
Introduction to Education
Provides pre-professional experiences and information about fundamental concepts related to teaching and learning in elementary and secondary schools.

ED 201: 2 s.h.
Personal Career Development
Designed as an overview of the world of work relevant to western society. Current theories of vocational development are explored and the students vocational development is investigated. Laboratory work involves the collecting, evaluating, classifying, and dispensing of occupational, educational, and social information.

ED202: 2 s.h.
Secondary Pre-Professional
Experience Introduction to observation and participation in the secondary schools, including a field experience component. Students will develop a greater understanding of the secondary school as a setting for teaching and learning.

ED 301: 2 s.h.
Evaluative Techniques
A basic testing and measurements course. Students study the domains of educational objectives, evaluation theory, the application of basic statistics to test data, and principles for selecting and interpreting standardized tests. Students will develop a test related to their area of teaching specialization.

ED302: 2 s.h.
Instructional Technology
An introduction to both traditional and contemporary types of instructional media including micro-computers, interactive teleteaching, and telecommunications. Students demonstrate skill in the use, production, and operation of selected areas of this technology.

ED305: 3 s.h.
(PSY) Educational Psychology
A study of the application of learning theory principles to the educational and institutional setting. Provides demonstrations and field experiences to enhance the applicability of these principles. Prereq: PSY 101.

ED306: 3 s.h.
Tutoring In The Educational System
Offers training in tutoring techniques for various subjects. Provides information in training, utilizing, and evaluating tutors in elementary and secondary classroom. Students participate in supervised tutoring sessions with college students.

ED310: 3 s.h.
Basic Reading Practices for Content Area and Special Teachers
Designed to provide instructional experiences that enable secondary content teaching candidates and special field teacher candidates to develop selected basic knowledge, skills, and attitudes regarding the reading learning process.

ED312: 3 s.h.
Teaching Secondary English Language Arts
Designed to prepare the student for the teaching of middle school/junior/senior high school English communication arts. In investigating the present resources of the school, the needs of the learners, and the potential for development in the field of English language study, the student will be preparing to function in either a traditional or experience-based school curriculum. Prereq: 2.5 QPA or permission of instructor.

ED313: 3 s.h.
Teaching of Science in Secondary Schools
Provides a framework for pre-service secondary school teachers to construct a set of science teaching methods, a philosophy of science teaching, and a psychologically and pedagogically sound theory of science instruction.

ED314: 3 s.h.
Teaching of Mathematics in Secondary Schools
The methods of teaching mathematics in grades 7-12 in the "Information Age", including the curricular changes of the mathematics reform movement, current methodology, the use of manipulative, and methods of calculator and computer use. Based on the standards of the National Council of Teachers of Mathematics and the Pennsylvania Department of Education and emphasizing the theme "Teacher as Reflective Decision-Maker".

ED315: 3 s.h.
Teaching of Social Studies in Secondary Schools
Provides a thorough background in the methods and materials for the teaching of social studies. Students will be involved in an observation-participation and teaching experience in classrooms and Living History programs at local and state parks. Prereq: 2.5 minimum QPA.

ED317: 3 s.h.
Methods of Teaching Foreign Languages
Emphasizes methods of teaching language skills, lesson organization, language resources, multi media applications including computer technology and the history of foreign language teaching.

ED330: 3 s.h.
Guidance and Counseling Techniques
The responsibility of the teacher in the guidance program of the school; the identification of student problems; the role of the instructional support team, interpretation of test and other information data; techniques in guidance and counseling are explored.

ED400: 12 s.h.
Student Teaching
(By arrangement) Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor. Prereq: 2.5 QPA.

ED401: 3 s.h.
History and Philosophy of Education
Foundations course in the study of professional foundations of education and the relationship that exists between the school and the society it serves. The course reviews cultural, historical, and educational milestones from the Greeks to modern time.

ED402: 2 s.h.
Contemporary Issues in Education
A course preparing students for entering the teaching profession, first as a student teacher, and second as a beginning teacher. Emphasis is placed on issues and trends in education. Required course of Elementary Education majors.

ED410: 3 s.h.
Historical and Current Issues in Education
Foundations of the historical and philosophical bases of education in a democracy and the relationship that exists between the school and the society it serves. Reviews cultural, historical, and educational milestones from the Greeks to modern times, with specific focus on contemporary education. A major facet of the study will be how education can effect societal change with reference to futurists' predictions of demands and opportunities for education in the twenty-first century. Prereq: junior or senior standing.

ED420: 3 s.h.
Basic Photography
A thorough introduction to the basic tools and creative techniques of black and white photography. Topics include operation and use of 35 mm camera and lens, exposure, film processing, printmaking, composition and design, and developing visual sensitivity.

ED421: 3 s.h.
Television Production
Covers the fundamentals and principles involved in the production of television programs. Includes the operation of TV equipment, production of visuals used in TV, and the production of a program.

ED422: 3 s.h.
Basic Motion Picture Photography
Examines the process of planning and production of 8 mm and 16 mm films. Students plan the content for their films, select the treatment, film the subject, edit the film, add sound, and demonstrate the use of their film. Prereq: ED420 or 421 or permission of instructor.

ED480: 3 s.h.
Computers in Education
Designed to instruct undergraduate education majors in the various uses of computers in the schools.

ED482: 3 s.h.
Computers in Education - Methods and Materials
Designed to instruct undergraduate education majors in the design and organization of computer learning environments; and in the selection, utilization, and evaluation of courseware.

ED485: 3 s.h.
Teaching of Adults
Designed to identify characteristics and needs of various target groups choosing or needing to be involved in educational offerings for adults. Explore lifelong learning as a phenomenon relative to many societal influences, and develop programs, teaching modules, and units which serve both society and the individual.

ED488: 3 s.h.
Distance Learning and Teleteaching
A survey and analysis of the distance learning movement in the United States with an emphasis on audiographics teleteaching and video conferencing.

ED497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

ELE185: 2 s.h.
Advanced Reading/Study Skills
A program designed for students needing assistance in developmental reading.

ELE202: 2 s.h.
Pre-Professional Experience
Provides sophomores with clinical experiences in elementary education which include identification and analysis of current educational practices, brief episodes of exploratory teaching, investigations of career possibilities and their requirements, an orientation to the Education Department and informal advisement seminars.

ELE300: 2 s.h.
Beginning School Years
A study of the developmental needs of the young child, theoretical bases for major teaching functions, current trends in activities, teaching procedures and materials, and observation in neighboring schools.

ELE301: 3 s.h.
Observation and Participation in Elementary Education
Provides juniors with the following observation, participation and professional guidance experiences: observation of an elementary classroom; orientation to policies and practices of an elementary school; opportunity to observe the in-service teacher in the performance of his/her duties; introduction to administrativeduties of an elementary classroom; the privilege of working with individual children, small groups of children and an entire classroom under supervision; and the opportunity to receive feedback on performance from the cooperating teacher and the college supervisor. Prereq: 2.5 QPA.

ELE350: 3 s.h.
Child Development
Examines development from conception and infancy, through preschool and middle school, and ends with adolescence. Major developmental theories that focus on the interaction of heredity and the environment are the key components.

ELE360: 3 s.h.
Children's Literature
Uses of children's literature in the preschool and elementary school curriculum; promoting interest in children's books; social themes and issues reflected in children's literature.

ELE362: 3 s.h.
Whole Language and Emerging Literacy
Introduction to the whole language approach to supporting emerging literacy in preschool and primary grade classrooms. Both current practices and theoretical founda-

tions will be surveyed. Will model whole language strategies and methods of evaluation. Prereq: ELE360.

ELE383: 3 s.h.
Teaching of Reading in the Elementary School
Theoretical bases of the reading process; components of reading skill; major approaches to instruction; methods and materials for teaching elementary reading are examined. Prereq: 2.5 QPA.

ELE384: 3 s.h.
Teaching Mathematics in the Elementary School
The methods of teaching mathematics in the K-6 classroom in the "Information Age", including the curricular changes of the reform movement, content methodology, the use of manipulatives, methods of calculator and computer use, and development of the mathematics skills required of elementary school teachers. Based on the standards of the National Council of Teachers of Mathematics (NCTM) and the Pennsylvania Department of Education (PDE), and emphasizing the theme "Teachers as Reflective Decision Maker".

ELE386: 3 s.h.
Teaching of Social Studies
Principles, problems, materials, and techniques for the teaching of elementary social studies. In-school experience provided. Prereq: 2.5 QPA.

ELE387: 3 s.h.
Teaching of Science
Provides a framework for pre-service elementary school teachers to construct a set of science teaching methods, a philosophy of science teaching, and a psychologically and pedagogically sound theory of science instruction.

ELE400: 12 s.h.
Student Teaching
(By arrangement) Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor. Prereq: 2.5 QPA.

ELE402: 1-3 s.h.
Selected Topics in Elementary Education
Designed to let students carry out in-depth studies in elementary teaching techniques. Emphasis on student leadership, participation, and reading and discussion of educational literature. May be taken for one through three credits.

ELE403: 3 s.h.
Communication Skills Workshop for Elementary School Teachers
Designed as a workshop for undergraduate students who have completed ELE 383 and for in-service classroom teachers. Emphasis is on investigating techniques used by elementary teachers to improve communication skills for children. Prereq: 2.5 QPA.

ELE405: 3 s.h.
Early Childhood Curriculum Seminar
Theoretical foundations of early childhood education; the classroom learning environment; curriculum planning and thematic units; strategies for guiding children's learning and behavior; methods for assessing and evaluating children's learning; diversity and integrating children with special needs; working cooperatively with parents and colleagues. Prereq: ELE 362. Dual listed with ELE 505.

ELE412: 3 s.h.
Reading/Writing in British Schools
An examination of the integrated language arts curriculum employed in British education. This companion course to "Introduction to British Education" includes first-hand experiences observing and participating techniques used by British schools.

ELE425: 3 s.h.
Diagnostic and Remedial Reading
Tests and techniques to prevent, detect, and correct reading difficulties; special methods and materials for problem readers. Prereq: ELE 383 or permission of instructor.

ELE488: 3 s.h.
Informal Diagnosis of Readiness in Elementary Teaching
Designed to alert teachers to cognitive and affective factors which influence a child's readiness to learn. Emphasis is on informal assessment of cognitive and affective behavior as a basis for decisions about instruction for a child.

ELE489: 3 s.h.
Environmental Education for Elementary School Teachers
A study of the methods, materials, and science background necessary to teach environmental education in the elementary school. Emphasis is on both science content and psychological grade placement of various activities.

ENGLISH

Professor Sanders, chairperson
Professors Biddison, Blais, Gertzman, Glimm, Hindman, Koloski, Uffelman
Associate Professors Barton, Pifer, Sornberger, Sullivan-Blum
Assistant Professors Harris, Murphy, Ulrich, Washington

English majors may pursue a B.A. or B.S. E. degree.

ENG 115 should be completed during the freshman year. A total of 45 credit hours in English (which may include ENG 112W and ENG 313W) is required for graduation.

In planning a course of study, English majors must consult with their departmental academic advisors on a regular basis, since major revisions in programs of study offered in whole or in part by the English department may occur to both modify and expand existing requirements. English B.S.E. majors have an advisor in both the English department and the Education department and must consult regularly with both advisors.

COURSE REQUIREMENTS

English Major (B.A.): 128 s.h.
ENG 115, ENG 333, ENG 352, ENG 401, ENG 308 or 309, ENG 310 or 311, 3 s.h. from ENG 362, 363, 364 or an appropriate 401, 6 s.h. from ENG 350 through 360 or an appropriate 401, 12 s.h. from 305 or 307 through 401.

Students must complete study of a foreign language through the 202 level.

English Major (B.S.E.): 128 s.h.
Secondary Education Certification
ENG 115, 225, 226, 324, 333,352, 401, ENG 308 or 309, ENG 310 or 311, 3 s.h. from 362,362, 364 or an appropriate 401, 6 s.h. from ENG 350 through 360 or an appropriate 401, 3 s.h. from 305 or 307 through 401.

Students must complete study of a foreign language through the 202 level.

Professional Writing (A.S.): 61 s.h.
ENG 230, 330, 401 (when offered as Professional Writing Seminar) 9 s.h. of writing electives selected through advisement from COM 230, ENG 202, ENG 414, ENG 497, JN 10,JN 210, JN 310, JN 320

Students must complete study of a foreign language through the 102 level.

CREATIVE WRITING MINOR
15 credits minimum (beyond the required composition courses) to include ENG 202, ENG 312 or 314, ENG 411 or 412 and 6 s.h. of creative writing electives

ENGLISH LITERATURE MINOR
18 credits minimum (beyond the required composition courses) to include ENG 115, ENG 203 or 204 or 220, ENG 308 or 309, ENG 310 or 311 and 6 s.h. of English Electives selected from ENG 350 through 401.

PROFESSIONAL WRITING MINOR
18 credits minimum (beyond the required composition courses) to include ENG 230, ENG 330, ENG 401 (when offered as Professional Writing Seminar) and 9 s.h. selected from COM 230, ENG 202, ENG 414, ENG 497, JN 100, JN 210, JN 310, JN 320.

WOMEN'S STUDIES MINOR
18 credits minimum to include ENG 100,ANH 250 or PSY 422, ENG 220 or 401 (when offered with Women's Studies content) or HST 210, WS 410, and 6 s.h. of women's studies electives selected through consultation with the Women's Studies advisor.

COURSE DESCRIPTIONS

ENG 045: 3 s.h.
Conversational and Written English for International Students
Designed to raise skills of international students in conversation and elementary English grammar so they are competent to function in classes at the university that are taught in English. Students learn and practice grammar, syntax, and idioms through written drills, oral exercises, and practice paragraphs. Open to students who score 515 or below on TOFEL test. Two hours a week are required in the language lab, meets 090 requirements. DOES NOT COUNT TOWARD TOTAL CREDITS NEEDED FOR GRADUATION.

ENG 090: 3 s.h.
Basic Writing Skills.
Designed to prepare students to do college-level writing. DOES NOT COUNT TOWARD TOTAL CREDITS NEEDED FOR GRADUATION.

ENG 100: 3 s.h.
Introduction to Women's Studies (G1)
Cross-disciplinary and cross-cultural examination of the ways that language, images, and socialization have constructed women's roles. Examines contemporary women's issues (work and family, sexuality, violence against women), as well as the women's movement and the role of women artists. Emphasis is on students (both female and male) working to discover the impact of these roles and issues in their own lives as well as in the larger world.

ENG 112W: 3
Composition I
Intensive reading and writing of expository prose. Analytical and critical thinking and college-level research skills are emphasized. Prereq: Exemption from ENG 090 or equivalent transfer course.

ENG 115: 3 s.h.
Introduction to Literature (G1)
Introduction to reading, poetry, fiction, drama for understanding and enjoyment.

ENG 202: 3 s.h.
Creative Writing
Explores the fundamentals of creative writing through the use of writing exercises and the discussion of selected stories, poems, and creative essays. Emphasis will be placed on a portfolio of work submitted at the end of the semester.

ENG 203: 3 s.h.
Readings in Ancient Literature (G1)
Introduction to some of the major characters, events, and ideas in the Greek, Roman, and Judeo-Christian mythologies that have so heavily influenced Western culture. (Mythology signifies the study of recurring patterns in thought and literature, not the separation of truth from fiction).

ENG 204: 3 s.h.
Readings in World Literature (G1)
Selected readings from nineteenth and twentieth century world literature, excluding British and American.

ENG 207: 3 s.h.
Readings in British Literature (G1)
Selected readings in British literature.

ENG 208: 3 s.h.
Readings in American Literature (G1)
Selected readings from American literature.

ENG 220: 3 s.h.
Special Topics in Literature (G1)
A study of one of the following topics: Black Literature, Women's Literature, other Minority Literature, Recent Literature, Film, and Folklore. May be repeated for a total of nine credits.

ENG 224: 3 s.h.
Introduction to Linguistics
Methods of analysis and description of language and ways in which human beings use their language. Of interest to students who wish to continue study of linguistics as well as those in a variety of professions who wish to read with understanding linguistic literature in their own field. Offered fall of odd years.

ENG 225: 3 s.h.
English Grammar (G1)
A systematic description of the rules of modern English grammar, making use of both traditional and contemporary grammatical theories. Offered spring semester.

ENG 226: 3 s.h.
History of the English Language (G1)
A study of the development of the English language from Old English to modern times with special attention to the causes of linguistic change. Offered fall semester.

ENG 230: 3 s.h.
Business Writing
An intensive course of instruction and practice in report writing, business writing, and technical writing. Emphasis is on the particular writing needs of each student.

ENG 305: 3 s.h.
Comparative Literature (G1)
Examines major works in a genre or movement, comparing two or more national literatures. May be taken for a total of nine credits. Offered spring semester. Prereq: ENG 112.

ENG 307: 3 s.h.
Literature in English From Around the World Study of literature written in English outside of the British Isles and the United States. Offered fall semester. Prereq: ENG 112.

ENG 308: 3 s.h.
Survey of British Literature I
Survey of major British literature from Beowulf through Neo-classicism. Offered fall semester. Prereq: ENG 112.

ENG 309: 3 s.h.
Survey of British Literature II
Survey of major British literature from the Romantics through the present. Offered spring semester. Prereq: ENG 112.

ENG 310 3 s.h.
Survey of American Literature I
Survey of seventeenth, eighteenth, and early nineteenth century American writers. Offered fall semester. Prereq: ENG 112.

ENG 311: 3 s.h.
Survey of American Literature
Survey of late nineteenth and twentieth century American writers. Offered spring semester. Prereq: ENG 112.

ENG 312: 3 s.h.
Intro to Fiction Writing
Designed to help students find their true voice and true concerns as writers while mastering the essentials of the art. Emphasis is on writing exercises and then complete works, but also on becoming better readers. In-depth discussion of student work, the assigned readings, and the process of writing. Prereq: ENG 202 or permission of instructor.

ENG 313W: 3 s.h.
Composition/Literature II
Study of significant literary texts which serve as a basis for serious, thoughtful, mature writing. Must be passed with a minimum grade of "C-" before graduation. Prereq: Junior standing, 64 credits earned.

ENG 314: 3 s.h.
Intro to Poetry Writing
Designed to help students discover and develop their voices and styles as poets. Explore poetry writing through writing exercises, through reading and discussing poems written by contemporary poets, and through discussing one another's poems in a supportive atmosphere. Prereq: ENG 202 or permission of instructor.

ENG 320: 3 s.h.
Special Topics in Literature
A specialized study of a topic in literature, film, or folklore. May be taken for a total of nine credits.

ENG 330: 3 s.h.
Technical Writing
This course teaches students to write for the world of technology. Introduces students to Word Perfect for Windows, Quattro, simple Graphics, E-Mail, Internet and other new writing technologies.

ENG 324: 3 s.h.
Composition Theory and Practice
Analysis of current theories about the writing process and methods of applying these theories, with actual practice in tutoring writing. Offered fall semester. Pereq: ENG 112 and 313.

ENG 333: 3 s.h.
Advanced Composition
Designed for proficient writers to enhance and improve their composing skills through intensive expository writing. Offered spring semester. Prereq: ENG 112 and 313 or permission of instructor.

ENG 350: 3 s.h.
Old and Middle English Literature
Study of major British writers and works from the Anglo Saxon period to 1500 such as Beowulf, "The Wanderer" and "The Seafarer," a selection of Middle English lyrics; a mystery play, Everyman, Sir Gawain and the Green Knight or The Pearl; a selection of tales from Chaucer's The Canterbury Tales and Malory. Offered fall of even years. Prereq: ENG 112.

ENG 351: 3 s.h.
Sixteenth Century British Literature
Studies major British writers from 1500-1600, stressing such works as the prose of More, the Elizabethan translations of Plutarch (North) and Montaigne (Florio), the verse drama of Marlowe, and the poetry of Sidney, Spenser, and Shakespeare. Offered spring of even years. Prereq: ENG 112.

ENG 352: 3 s.h.
Shakespeare
Selected plays of Shakespeare with interpretation, evaluation, and attention to his development as a dramatist and poet. Offered fall semester.

ENG 353: 3 s.h.
Seventeenth Century British Literature
Studies major British writers from 1600 to 1660, focusing on such works as the religious lyrics of Donne and Herbert, the philosophical prose of Browne, Bacon, and Hobbes, the cavalier libertinism of Herrick, Crew, and Rochester, and the canon of Milton's work, especially Paradise Lost. Offered fall of odd years. Prereq: ENG 112.

ENG 356: 3 s.h.
Restoration and Neoclassic British Literature
Study of major British writers from 1660 to 1800 such as Dryden, Swift, Pope, Gay, Fielding, and Johnson. Offered spring of odd years. Prereq: ENG 112.

ENG 357: 3 s.h.
British Romantic Literature
Studies major British writers from 1789 to 1830, such as Austen, Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Offered fall of even years. Prereq: ENG 112.

ENG 359: 3 s.h.
Victorian Literature
Study of major British writers from 1830 to 1900, such as Dickens, G. Eliot, Tennyson, Browning, and Arnold. Offered fall of odd years. Prerequisite: ENG 112.

ENG 360: 3 s.h.
Twentieth Century British Literature
Study of major British writers of the twentieth century, such as Yeats, Eliot, Joyce, Lawrence, Shaw, Beckett, and Pinter. Offered fall of even years. Prereq: ENG 112.

ENG 362: 3 s.h.
American Romanticism
Study of major American Romantic writers, such as Emerson, Poe, Hawthorne, Melville, and Whitman, Offered spring of even years. Prereq: ENG 112.

ENG 363: 3 s.h.
American Realism and Naturalism
Study of major American writers between the Civil War and World War II, such as Dickinson, Twain, James, Chopin, Crane, Wharton, and Dreiser. Offered fall of odd years. Prerequisite: ENG 112.

ENG 364: 3 s.h.
Twentieth Century American Literature
Study of major American writers since World War I, such as O'Neill, Fitzgerald, Cather, Faulkner, Hemingway, Frost, Stevens, and Williams. Offered spring of odd years. Prerequisite: ENG 112.

ENG 382: 3 s.h.
Theory of Literature
A survey of the major critical approaches to literature. Offered spring of even years. Prereq: ENG 112.

ENG 401: 3 s.h.
Seminar in English Studies
A specialized and in-depth study of a major writer, a small group of related writers, a particular genre, or a specific limited time period from either American or British literature. May be taken for a total of nine credits. Prerequisite: ENG 112.

ENG 411: 3 s.h.
Advanced Fiction Writing
Through writing exercises, reading the work of published writers, and workshopping original manuscripts, students will work on creating a portfolio of short fiction. Students will, also, learn how to market their work. Prereq: ENG 313 or permission of instructor.

ENG 412: 3 s.h.
Advanced Poetry Writing
Study of poetry by contemporary poets. Presentations will be made about poets of student's choosing. Learn how to evaluate literary markets, how to prepare a manuscript to be submitted for publication, and develop a chapbook of poems. Prereq: ENG 314 or permission of instructor.

ENG 414: 3 s.h.
Creative Non-Fiction Prose
Students will write about subjects of interest and importance to them using literary techniques and devices. Will read and discuss a selection of book-length non-fiction works: memoirs, diaries, socio-political commentary, and nature writing. Writing techniques and exercises designed to stir creativity and stimulate ideas will be used. Prereq: ENG 312 or 314 or permission of instructor.

ENG 416: 3 s.h.
Novel Writing
Students will read and discuss published novels and work on writing their own, critiquing and discussing one another's work. Includes the first three chapters and a synopsis of the novel. Prereq: ENG 312 or permission of instructor.

ENG 497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

FOREIGN LANGUAGES

Associate Professor Clark, Chairperson
Professor Garay
Associate Professor Blanco
Assistant Professors Holtman, Iovino

M.U. Foreign Language Department offers B.A. and B.S. degrees in French, German, and Spanish; the opportunity to take basic through intermediate Russian is also available. All students take at least fifty-seven semester hours in General Education with certain distribution requirements. Before graduation they will have taken at least thirty-four semester hours in their foreign language major. These will include courses in structure, phonetics and pronunciation, culture and civilization, and literature. We have several students who take dual majors and many who opt for minors; the latter are available in French, German, Spanish, and Latin American Studies, all of which can prove to be an advantage when those graduating make job applications. This is only natural in an ever more independent world where the ability to function in international communications is at a premium. The influence of Hispanic culture is growing in the U.S. while French is still spoken in many countries and German has wide application, especially in Europe.

We strongly encourage students to take courses in Study Abroad programs and believe that such participation should be part of the preparation of all aspiring foreign language teachers. But the benefits accrue to others who avail themselves of such an opportunity: they not only have a better understanding of other cultures but are in a stronger position to use the knowledge they have acquired in the pursuit of their careers. To date students have taken part in programs in Ecuador, France, Germany, Mexico, Spain and Russia; Mansfield University has an exchange program with Volgograd University, Russia and is initiating a study Abroad program with the Universidad Nacional, Costa Rica.

The foreign language laboratory has booths where students practice listening, comprehension and speaking skills from cassettes which they control individually. This facility is also equipped with several computer stations and has satellite receiver capability. In classrooms too, videos, slides, and maps are presented in various courses to enhance the learning/cultural environment and help provide a living background for the appropriate language.

Foreign Language study may be useful or necessary in various careers in government agencies and provides an expertise often called upon in many areas of travel and tourism industry or in journalism. It is also, of course, the basis for those wishing to pursue graduate studies in the field with a view to teaching and research in higher education.

COURSE REQUIREMENTS

French, German, or Spanish Major (B.A): 128 s.h.
Specialization in French, German, or Spanish. French: FR 201, 202, 205, 300, 320, 330, 331; 15 s.h. French electives. German: GER 201, 202, 205, 300, 320, 330, 331, 335 or 336 or 380; 15 German electives. Spanish: SPA 201, 202, 205, 305, 306, 307, 320, 330 or 331, 340 or 341; 15 Spanish electives. Students must complete either a second year language proficiency or a minor.

French, German, or Spanish Major (B.S.E.): 128 s.h.
Secondary Education Certification
Must complete the core courses in the B.A. program plus ED 101, 202, 300, 301, 302, 305, 310, 400, 410, SPE 360.

COURSE DESCRIPTIONS

French

FR 101: 3 s.h.
Introductory French I (G2)
For beginning students and those with less than two years of high school French. Emphasis is on grammar, pronunciation drills, aural comprehension, speaking, reading, and writing with language lab.

FR 102: 3 s.h.
Introductory French II (G2)
Continuation of 101 with language lab. Prereq: FR 101 or equivalent.

FR 201: 3 s.h.
Intermediate French I (G2)
Reading texts, grammar review and further practice in aural comprehension, speaking, and writing with language lab. Prereq: three years of high school French or FR 102.

FR 202: 3 s.h.
Intermediate French II (G2)
Continuation of 201 with language lab. Prereq: four years of high school French or FR 201.

FR 205: 1 s.h.
Phonetics & Pronunciation (G2)
Systematic pronunciation drill and phonetic transcription. Prereq: FR 102 or equivalent.

FR 300: 3 s.h.
Conversational French and Civilization (G2)
Designed to gain more fluency and develop writing skills. Examines socio-economic, political, and cultural topics. Prereq: FR 202 or equivalent.

FR 305: 3 s.h.
Advanced French Conversation (G2)
Continuation of 300. Students make oral commentaries and write reports.

FR 306: 3 s.h.
Topics in French Civilization (History) (G2)
A brief survey of French history, with particular attention to major events and personalities. Prereq: FR 202 or equivalent.

FR 307: 3 s.h.
Topics in French Civilization (Geography) (G2)
A study of the geography of French-speaking countries. Prereq: FR 202 or equivalent.

FR 308: 3 s.h.
Topics in French Civilization (Afro-American Literature and Civilization) (G2)
A study of Black literature written in French, Africa, and the West Indies. Prereq: FR 202 or equivalent.

FR 309: 3 s.h.
Topics in French Civilization (Contemporary Problems) (G2)
A study of the problems facing the people of French-speaking countries. Prereq: FR 202 or equivalent.

FR 310: 3 s.h.
Business French (G2)
An introduction to French business and its terminology: a broad study of the commercial procedures in France with a concentration on the acquisition of the necessary vocabulary.

FR 320: 3 s.h.
Advanced French Structure (G2)
A final review of the structure of French and study of short literary texts. Prereq: FR 202 or equivalent.

FR 330: 3 s.h.
Survey of French Literature I (G2)
Selected readings of major French writers through the eighteenth century, outside readings and reports, literary movements, style and form. Prereq: FR 202 or equivalent.

FR 331: 3 s.h.
Survey of French Literature II (G2)
Selected readings of major French writers since 1800; outside readings and reports, literary movements, style and form. Prereq: FR 202 or equivalent.

FR 339: 3 s.h.
French Literature of the Middle Ages and Renaissance (G2)
Reading and discussion of the beginnings of French literature to the end of the 16th century. Prereq: FR 330 and 331 or permission of instructor.

FR 340: 3 s.h.
French Classical Literature (G2)
Critical readings and discussion of the major dramatic works of Corneille, Moliere and Racine with supplementary reading on general background. Prereq: FR 330 and 331 or permission of instructor.

FR 341: 3 s.h.
French Literature of the Enlightenment (G2)
Reading and discussion of the works of Voltaire, Rousseau, and Diderot. Prereq: FR 330 and 331 or permission of instructor.

FR 342: 3 s.h.
Currents in Nineteenth-Century French Literature (G2)
The works of French authors as well as the main currents and form of literary expression from the beginning of Romanticism to the end of the century; Hugo, Balzac, Stendhal, Flaubert, and Zola. Prereq: FR 330 and 331 or permission of instructor.

FR 343: 3 s.h.
Aspects of Twentieth-Century French Literature (G2)
Development of the novel and modern French theatre: Gide, Alain-Fournier, Proust, Mauriac, Malraux, Sartre, Camus, Bernanos, St. Exupery, Green, and Ionesco. Reading and discussion of major works and a written report. Prereq: FR 330 and 331 or permission of instructor.

FR 350: 3 s.h.
Development of French Poetry (G2)
A study of the major works of poets from Villon to the present. Emphasis on interpretation and diction. Study of the French poetic. Prereq: FR 330 and 331 or permission of instructor.

FR 370-380: Credit Arranged
Foreign Study (G2)
Open to students who wish to continue the study of French abroad. The number of credits granted is based upon validated credentials presented to the department. Plans for foreign study should be submitted at least one semester prior to departure. Regulations regarding study abroad are available in the Office of the Provost/Vice President for Academic Affairs.

FR 400: Credit Arranged
Senior Seminar (G2)
Special study projects in French language and literature; independent reading in the defined areas followed by written analytical reports in French. Open to seniors and in exceptional cases to juniors.

FR 405: Credit Arranged
Honors Course for French Majors (G2)
An individual problems course. Open to qualified seniors with consent of the department.

FR 497: 1-3 s.h.
Independent Study (G2)
May be taken for one, two or three credits at one time.

German

GER 101: 3 s.h.
Introductory German I (G2)
For beginning students and those with less than two years of high school German. Elements of structure, reading and writing, intensive drill in pronunciation, aural comprehension, and speaking are examined. Language laboratory attendance is required one hour per week.

GER 102: 3 s.h.
Introductory German II (G2)
Continuation of 101. Language laboratory attendance is required one hour per week. Prereq: GER 101 or equivalent.

GER 201: 3 s.h.
Intermediate German I (G2)
A review of the structure of the German language with additional emphasis on listening comprehension, speaking, reading, and writing. Language laboratory attendance is required one hour per week. Prerequisite: two years of high school German, GER 102 or equivalent.

GER 202: 3 s.h.
Intermediate German II (G2)
Continuation of 201. Increased emphasis on the development of the four language skills, using materials taken from actual cultural and literary selections. Language laboratory attendance is required one hour per week. Prereq: three years of high school German, GER 201 or equivalent.

GER 205: 1 s.h.
Phonetics and Pronunciation (G2)
A study of German phonetics,
phonemics, pronunciation, intonation, and rhythm. The theory of the speech and articulatory mechanisms will be studied; extensive practice exercises. Prereq: GER 102 or equivalent.

GER 300: 3 s.h.
Conversational German (G2)
Intensive oral practice in German for the development of a higher degree of fluency in the spoken language. Emphasis on topics of cultural, social, economic, and political nature. Prereq: GER 202 or equivalent.

GER 305: 3 s.g.
Advanced German Conversation (G2)
Intensive development of oral expression for students desiring a higher level of oral fluency. Emphasis is on enabling the student to carry on discussion in more detail and giving oral reports. Prereq: GER 202 or equivalent.

GER 320: 3 s.h.
Advanced German Structure (G2)
Study and practical application of the German structural patterns with concentration on the morphology and syntax of the language. Prereq: GER 202 or equivalent.

GER 321: 3 s.h.
Composition and Stylistics (G2)
Development of self-expression in writing. Emphasis is on simultaneous development of expression and stylistic writing. Frequent written assignments and at least one significant written assignment of a critical nature. Prereq: GER 202 or equivalent and recommendation of instructor.

GER 330: 3 s.h.
Survey of German Literature I (G2)
Designed to acquaint the student with the major literary movements and representative writers of German literature from 1750. Prereq: GER 202 or equivalent.

GER 331: 3 s.h.
Survey of German Literature II (G2)
Sequel to GER 330. A cross section of literary movements and significant writers from the earliest periods through 1750. Prereq: GER 202 or equivalent. GER 330 is recommended.

GER 335: 3 s.h.
Proseminar: Deutschlandkunde (G2)
Students will become acquainted with the political, educational, and economic makeup of modern Germany, including special problems of the German reunification. Contemporary German culture will also be examined in its context within society as a whole. In addition, practical aspects of everyday German life (public transportation, mail system, social behavior, etc.) are covered.

GER 336: 3 s.h.
Proseminar: Laender und Staedte (G2)
Emphasis is on the cultural, economic, and social significance of each major geographical region along with main cities and tourist destinations in each. Students will also prepare individual presentations on an area that interests them.

GER 337: 3 s.h.
Proseminar: Twentieth Century German Literature (G2)
Major literary movements along with works or selections of works by representative authors will be the focus of this course. Techniques and terminology of literary analysis will be covered. Students will prepare a research project on a particular author, genre, or movement.

GER 338: 3 s.h.
Proseminar: Nineteenth Century German Literature (G2)
Readings from principal authors of the 19th century will be used to analyze the various literary and social movements that characterized this period. Students will be expected to carry out a research project.

GER 341: 3 s.h.
Proseminar (G2)
Change topic. Prereq: GER 202 or equivalent competency, GER 320 preferred.

GER 360: 3 s.h.
Seminar: German Cultural History (G2)
Survey of the cultural development of the German-speaking areas from the tribal migration period through the recent reunification. Emphasis is on literary, architectural, musi-

cal, scientific, and artistic achievements of each period and how these interact. Students will prepare several brief presentations and an in-depth project.

GER 361: 3 s.h.
Seminar: Eighteenth Century German Literature (G2)
Literary and social periods of the eighteenth century and texts by representative authors will be stressed. Students will gain exposure to older literary styles and language usage. Each student will carry out a research project on one author or movement within the period.

GER 362: 3 s.h.
Seminar: German Lyric Poetry (G2)
A representative sample of lyric poetry from the earliest extant examples up to that of contemporary times. Students will be exposed to metrical analysis, poetic devices and forms, and terminology used in literary discussions of verse. Written project and smaller oral presentations required.

GER 363: 3 s.h.
Seminar: The German Novelle (G2)
This is a genre-study course that concentrates on the Novelle (longer short story or novelette) as it developed in the German-speaking countries. Authors studied are from the 19th and early 20th centuries, covering romanticism to realism.

GER 364: 3 s.h.
Seminar: German Drama (G2)
Representative plays and theories of drama from each of the main literary movements will be studied in their social and artistic contexts. A research project will be required, part of which might be, depending upon wishes of the class, actual scenes for presentation to class or campus audience.

GER 370-380: Credit Arranged
Foreign Study (G2)
"Strongly recommended for all German majors - especially those in the BSE program or who plan to pursue graduate work, but open to students of any major who wish to live and study in Germany." The number of credits granted is based upon validated credentials presented to the department. Plans for foreign study should be submitted at least one semester prior to departure. Regulations regarding study abroad are available in the Office of the Provost/Vice President for Academic Affairs.

GER 400: 3 s.h.
Senior Seminar (G2)
Possible topics: works of one specific author (e.g., Boll, Brecht, Heine, Durrenmatt, Goethe, Schiller, Grass); children's literature and fairy tales; literature of the former East Germany; introduction to Middle High German; history of the German language; introduction to comparative Germanic philology. Other topics possible if prearranged with instructor.

GER 497: 1-3 s.h.
Independent Study (G2)
May be taken for one, two or three credits at one time.

Russian

RUS 101: 3 s.h.
Introductory Russian I (G2)
Oral alphabet drill, written alphabet drill, study of specific letters and sounds, pronunciation and orthography,personal pronouns, present tense, first conjugation verbs, accusative of personal pronoun questions, indirect questions and negation, present tense, second conjugation verbs, reflexive verbs, gender of nouns, Russian expression for TO

HAVE, accusative of nouns (direct objects), verbs of going, months and years with numbers, prepositional case of nouns, possessive pronouns/adjectives. Prereq: proven foreign language ability.

RUS 102: 3 s.h.
Introductory Russian II (G2)
Dative case of pronouns, double negatives, conjunctions. Noun plurals, stress shift in plurals, geographical information, expressions with dative, demonstrative pronouns, adjectives, superlative degree, past tense, future tense, accusative of adjectives/possessive pronouns, relative pronouns, partitive genitive, instrumental case with prepositions. Prereq: proven foreign language ability.

RUS 201: 3 s.h.
Intermediate Russian I (G2)
The perfective and imperfective aspect of verbs, dates and the negative case, dative case of nouns, adjectives and pronouns, instrumental case without prepositions, relative pronouns, partitive genitive, passive voice, instrumental case with prepositions, masculine nouns with stressed endings, genitive plural, adjectives modified by numbers, dative, instrumental and prepositional plural, indefinite pronouns, adjectives and adverbs, comparative degree of adjectives and adverbs, reading of simple texts. Prereq: RUS 101 and 102 or equivalent.

RUS 202: 3 s.h.
Intermediate Russian II (G2)
Conditional, subjunctive mood, verbs of going, running, taking, bringing, carrying, leading, prefixed verbs of motion, additional information about perfective/imperfective verbs, verbal adverbs, declension of last names, participles: present active, past active, present passive, past passive, review of semesters and previous grammar, further reading of simple Russian texts. Prereq: RUS 101 and 102 or equivalent.

RUS 370-380:Credit Arranged
Foreign Study (G2)
Open to students who wish to study abroad. Plans for foreign study should be presented at least one semester prior to departure. Number of credits granted will be based upon validated credentials presented to the department. The student should register for RUS 370-380 prior to departure. Students should consult the regulations for study-abroad available in the Office of the Provost/Vice President for Academic Affairs.

Spanish

SPA 101: 3 s.h.
Introductory Spanish I (G2)
For students who have not previously studied Spanish. Fundamentals of grammar, intensive drill in pronunciation, comprehension, and speaking. Two hours language laboratory required weekly.

SPA 102: 3 s.h.
Introductory Spanish II (G2)
Continuation of 101, two hour language laboratory weekly. Prereq: SPA 101 or equivalent.

SPA 201: 3 s.h.
Intermediate Spanish I (G2)
Continuation of 102, grammar review. Prereq: SPA 102 or equivalent.

SPA 202: 3 s.h.
Intermediate Spanish II (G2)
Continuation of 201. Prereq: SPA 201 or equivalent.

SPA 205: 1 s.h.
Pronunciation and Phonetics (G2)
Analysis of Spanish phonetics. Emphasizes oral drills for English-speakers seeking to acquire Spanish accent. Prereq: SPA 102.

SPA 300: 3 s.h.
Spanish Conversation (G2)
Practice in oral self-expression and comprehension. Selected topics assigned for each class. Prereq: SPA 202 or permission of instructor.

SPA 305: 3 s.h.
Spanish Conversation and Composition (G2)
Intensive development of oral expression and self-expression in writing for students desiring a higher level of oral fluency and proficiency in writing. Class is conducted in Spanish. Prerequisite: SPA 202 or permission of instructor.

SPA 306: 3 s.h.
The Culture and Civilization of Spain (G2)
Examines the history of customs and institutions of Spain. Emphasizes the effect of history on general culture and customs of present-day Spain. Prereq: SPA 202 or equivalent.

SPA 307: 3 s.h.
The Culture and Civilization of Latin America (G2)
Studies the history, customs and politics of Latin America. Emphasizes general characteristics: race, religion, life style, etc. Prereq: SPA 202 or equivalent.

SPA 320: 3 s.h.
Advanced Spanish Structure (G2)
Study and application of Spanish structural patterns; emphasizes syntax. Prereq: SPA 202 or equivalent.

SPA 330: 3 s.h.
Survey of Spanish Literature I (G2)
Examines the most important writers of Spain through 17th century; attention given to literary movements, historical backgrounds, style and form. Prereq: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 331: 3 s.h.
Survey of Spanish Literature II (G2)
Continuation of 330. Prereq: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 340: 3 s.h.
Spanish-American Literature I (G2)
Examines the major Spanish-American writers and movements through Realism and Naturalism. Prereq: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 341: 3 s.h.
Spanish-American Literature II (G2)
Continuation of 340 from Modernism to the present. Prereq: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 370-380: Credit Arranged
Foreign Study (G2)
Open to students who wish to continue the study of Spanish abroad. Plans for foreign study should be presented at least one semester prior to departure and should be approved by the department chairperson. Number of credits granted will be based upon validated credentials presented to the department. The student should register for SPA 370-380 prior to departure. Students should consult the regulations for study-abroad available in the Office of the Provost/Vice President for Academic Affairs.

SPA 400: Credit Arranged
Senior Seminar (G2)
Selected topics in Spanish and Latin American Literature.

SPA 497: 1-3 s.h.
Independent Study (G2)
May be taken for one, two or three credits at one time.

GEOGRAPHY AND GEOLOGY

Professor Dodson, Chairperson
Associate Professor Darby
Assistant Professors King, Thorne

Geography is a modern academic field concerned with interpreting the physical and cultural patterns and processes that shape our world. Geographers study a broad range of topics such as the conservation and management of natural resources, the ecological relationships of people and their surroundings, environmental disruptions, regional-economic development, and geographic information systems (GIS). This program allows some freedom, with advisement, to tailor a program to individual needs and interests. With diligent study, students should be prepared for graduate school or for entry-level positions in government and industry.

The following degrees, emphases and options are available in the department: a B.A. and a B.S. in geography, as well as B.S. emphases in environmental science and regional planning; minors in geography, geology, and regional planning; an A.S. in geography/mapping technology; and, a certificate in cartography. The department also houses the content-area component of the B.S.E. (teacher preparation) programs in earth/space science and social studies (geography emphasis).

COURSE REQUIREMENTS

Geography Major (B.A.): 128 s.h.
GEG 101, 102, 111, 222, 300, 320, 360, 364; 12 s.h. of geography electives.

Geography Major (B.S.): 128 s.h.
GEG 101, 102, 111, 222, 300, 320, 360, 364; 15 s.h. of geography electives.

Geography Major (B.S.): 128 s.h.
Environmental Science Emphasis
GEG 101, 102, 111, 222, 300, 312, 340, 364, 465; BI 350; RPL 342; CHM 101 & 102 or 111 & 112. Select 3 from GEG 321, 415, 420; GEL 102, 121, 330; BSC 250; or BI 331, 351. Select 9 s.h. of GEG electives.

Geography Major (B.S.): 128 s.h.
Regional Planning Emphasis
GEG 101, 102, 111, 222, 300, 320, 350, 360, 364, 375, 430; RPL 102, 342, 494, 496.

Social Studies Major (B.S.E.): 128 s.h.
Secondary Education Certification:
Geography Option
GEG 102 or 102, 111, 9 s.h. in GEG electives. For divisional requirements, refer to Social Studies.

Social Studies Major (B.S.E.): 128 s.h.
Secondary Education Certification
Earth and Space Science Option
AST 105 or 106; GEG 111, 222, 312, 415; GEG/GEL 321, 340, 420, Field Camp; GEL 102, 121, 122, 330, 332, 341, 352, 401; BSC 250. For divisional requirements,refer to Social Studies.

Geography/Mapping Technology (A.S.): 60 s.h.
GEG 101, 102, 111, 320, 330, 340, 364, 375, 420, 430, 431.

Geography Minor: 18 s.h.
Select 3 from GEG 101, 102, 111, 222. select 9 s.h. of GEG electives (300 or 400 level).

Regional Planning Minor: 18 s.h.
RPL 101, 342, 494. Select 3 from GEG 320, 364, 375, 430.

Geology Minor: 18 s.h.
GEL 121, 122. Select 12 s.h. of GEL electives (300 or 400 level).

COURSE DESCRIPTIONS

GEG 101: 3 s.h.
World Regional Geography (G5)
Regional study of the world with special emphasis on the diversity of human existence and the world-scale problems currently faced.

GEG 102: 3 s.h.
Human Geography (G5)
Study of aspects and distribution of culture. Topics include population, health, language, religion, and economic activities.

GEG 111: 3 s.h.
Physical Geography (G5)
Introduces the earth-science component of geography. Topics include earth-sun relationships, weather and climate, vegetation, soils, and landforms.

GEG 222: 3 s.h.
Environmental Issues (G5)
Surveys a wide range of environmental issues. Topics include population growth, soils, floods, water availability and quality, sewage treatment, solid and toxic waste, fossils fuels, nuclear power, and alternative energy sources.

GEG 300: 2 s.h.
Geographic Research
Studies the techniques of research in geography as well as the effective written and oral presentation of results. A research paper is required.

GEG 312: 3 s.h.
Weather and Climate
Studies the basic concepts of meteorology and climatology; causes and consequences of climate change, both natural and anthropogenic; surface and upper-level weather maps; and selected topics germane to current environmental concerns. Prereq: GEG 111 or permission of instructor.

GEG 320: 4 s.h.
Cartography
The principles and tools of cartography. Students use a combination of graphics software and mapping software to compile, design, and produce maps.

GEG (GEL) 321: 3 s.h.
Geomorphology
Studies how landforms develop and change. Surveys the major landform regions and national parks of the United States. Interpretation of aerial photographs is an integral part of the course. Prereq: GEG 111 or GEL 121 or permission of instructor.

GEG 330: 3 s.h.
Advanced Cartography
Modern techniques of cartographic production. Emphasis is on preparation of maps for reproduction and distribution in both modern and traditional media. Prerequisite: GEG 320 or permission of instructor.

GEG (GEL) 340: 4 s.h.
Map and Air Photo Interpretation
Studies the interpretation of maps and aerial photographs. Topics include location systems, scale, portrayal of relief, surveying techniques, photogrammetry, interpretation principles, and specific applications of aerial photography.

GEG 350: 3 s.h.
Urban Geography
Analysis of the localization, structure, and function of urban settlements and their supporting areas.

GEG 351: 3 s.h.
Population Geography
Studies the spatial aspects of world population; emphasizes the economic and social characteristics, and mobility of the world's population.

GEG 360: 3 s.h.
Economic Geography
Relates modern methods of geographic analysis to the study of population, resources, primary and secondary production, tertiary and quaternary activities, and international trade.

GEG 364: 3 s.h.
Techniques of Geographic Measurement
An introduction to the methods of geographic measurement, such as data gathering and statistical-computerized analysis. Intended to familiarize students with more advanced methodologies of geographic research.

GEG 375: 3 s.h.
Geographic Information Systems
An analysis of the emerging field of geographic information systems (GIS) and related technology with emphasis on both raster and vector data systems. Special emphasis is placed on practical applications.

GEG 380: 3 s.h.
Geography of the United States and Canada
An analysis of the physical and human aspects of the United States and Canada. Particular emphasis on regionalism and regional problems.

GEG 381: 3 s.h.
Geography of Pennsylvania
Analysis of the regional patterns of Pennsylvania. Topics include topography, climate, water resources, mineral resources, and the historical development of economic regions within the state.

GEG 415: 2-4 s.h.
Special Problems in Geography
Offers extensive field experience and the opportunity to observe first-hand a variety of natural and human processes and phenomena.

GEG (GEL) 420: 3 s.h.
Remote Sensing
Examines color and color infrared aerial photography as well as Landsat, SPOT, thermal and radar imagery. Computer processing of Landsat data is an integral part of the course.

GEG 430: 3 s.h.
Modern Cartographic Techniques
Advanced map design and production topics. Students use a variety of software packages and data sources to produce maps. Prereq: GEG 320 or permission of instructor.

GEG 431: 1 s.h.
Seminar in Cartographic Programming
Computer programming for cartography and Geographic Information Systems. The course will cover spatial data bases, computer graphics, interface design, and translations between major file formats.

GEG 465: 1 s.h.
Seminar in Environmental Science
An upper-level seminar that integrates and applies concepts and skills taught in the basic courses of the environmental science emphasis.

GEG 496: 3-12 s.h.
Internship
Offers practical work experience and the opportunity to apply and further develop skills taught in the Geography Department. Prereq: Permission of instructor.

GEG 497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits.

GEG 499: 3 s.h.
Honors Course
Designed for upper-division students who qualify for independent research under the supervision of a departmental faculty member.

Geology

GEL 102: 3 s.h.
Environmental Geology (G3)
The relationship of man to his environment will be examined with particular emphasis to problems of natural hazards (earthquakes, flooding, landslides), construction, groundwater management, resources utilization, impact mitigation, and geological planning.

GEL 121: 3 s.h.
Physical Geology (G3, L)
A study of the solid portion of the earth, the materials of which it is composed, and the processes which are acting on it. Included are such topics as rocks and minerals, weathering, and geologic structures.

GEL 122: 3 s.h.
Historical Geology (G3, L)
A study of earth history. Includes theories of earth's origin, fossils, geologic time, and the various techniques used to unravel geologic history.

GEL 302: 1 s.h.
Environmental Geology Laboratory (L)
A laboratory course for advanced studies in environmental geology. Topics will include geologic hazards, mapping, mineral resources assessment, economic impact of geologic events, and prediction/estimation exercises. Prereq: GEL 102. May be taken concurrently.

GEL (GEG) 321: 3 s.h.
Geomorphology
Studies how landforms develop and change. Surveys the major landform regions and national parks of the United States. Interpretation of aerial photographs is an integral part of the course. Prereq: GEG 111 or GEL 121 or permission of instructor.

GEL 330: 3 s.h.
Hydrology
Hydrology is the study of water in the geological environment. Emphasis is on the occurrence, movement, quality, and quantity of surface- and ground-water; quantitative geologic and hydrologic methods are included.

GEL (GEG) 340: 4 s.h.
Map and Air Photo Interpretation
Studies the interpretation of maps and aerial photographs. Topics include location systems, scale, portrayal of relief, surveying techniques, photogrammetry, interpretation principles, and specific applications of aerial photography.

GEL 350: 3 s.h.
Stratigraphy and Tectonics (L)
An integrated study of the basic concepts of stratigraphy, sedimentation, structural geology, and tectonics. Demonstrates the practical application of these subdisciplines to mining, resource assessment, hydrology, petroleum exploration, and environmental geology. Prereq: GEL 122

GEL 360: 3 s.h.
Rocks, Minerals, and Fossils (L)
A basic introduction to petrology, mineralogy, and paleontology. Emphasizes the origin, occurrence, properties, uses, and identification of rocks, minerals, and fossils. A variety of activity-based instructional methods will be employed. Prereq: GEL 121.

GEL 401: 3 s.h.
Field Techniques in Geology
A field oriented course where the student learns actual data collection methods. Methods vary with the problem, but include planning field work, identifying and measuring parameters of an outcrop, and sampling techniques. Different surveying methods are also covered. Interpretation of the field data is an integral part of the course.

GEL (GEG) 420: 3 s.h.
Remote Sensing
Examines color and color infrared aerial photography as well as Landsat, SPOT, thermal, and radar imagery. Computer processing of Landsat data is an integral part of the course.

GEL 497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits.

Regional Planning

RPL 102: 3 s.h.
Introduction to Regional Planning (G6)
Examines regional planning as a tool for shaping the future man-made and natural environment. Introduces man/land relationships that affect community well being; the tools used by government in managing these relationships for public benefit; and programs, policies, and activities required by recent planning legislation.

RPL 342: 3 s.h.
Land-Use Policy
An interpretive synthesis of the precepts and concepts of land-use that encourage and discourage geographic patterns on a changing landscape. Familiarizes the student with the economic, social, and political processes that are especially important for planning which is intended to move regions toward a particular goal.

RPL 494: 3 s.h.
Planning Seminar
Practical application of techniques learned in previous courses to typical planning problems.

RPL 496: 12 s.h.
Planning Internship
Provides experience in regional or corporate planning offices to apply knowledge and skills of planning under the supervision of qualified planners. An evaluation of the internship is made by the supervisory agency.

RPL 497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits.

HEALTH, PHYSICAL EDUCATION AND RECREATION

Associate Professor Sabol, chairperson
Associate Professors Evans, Maisner, Sabol, H.Shaw
Assistant Professors Irwin, Schintzius, M.Shaw

Students are required to pass three credits of health and physical education to satisfy the degree requirements.

HPE 100: 2 s.h.
Health (Personal and Community)
Includes health services, health instruction and health environment dealing with contemporary principles, practices and concepts serving personal, family and community health.

HPE 101-164: 1 s.h.
Physical Education
Serves the individual with little or no experience in the activity selected. Emphasis on beginner-level fundamental skills in seasonal activities for individual, dual, and team sports.

HPE 101 - Beginning Swimming
HPE 102 - Beginning Bowling
HPE 103 - Beginning Tennis
HPE 104 - Beginning Tennis and Badminton
HPE 105 - Beginning Golf and Badminton
HPE 106 - Beginning Archery
HPE 107 - Beginning Billiards
HPE 108 - Beginning Rackets
HPE 109 - Beginning Skiing
HPE 110 - Beginning Golf
HPE 111 - Basic Horsemanship
HPE 112 - Tumbling
HPE 113 - Volleyball & Softball
HPE 114 - Archery & Softball
HPE 115 - Conditioning and Body Awareness
HPE 116 - Soccer & Basketball
HPE 117 - Racquetball & Badminton
HPE 118 - Racquetball
HPE 119 - Aerobic Aquatics
HPE 120 - Tennis & Badminton
HPE 121 - Softball & Conditioning
HPE 122 - Conditioning & Weight Training
HPE 123 - Volleyball & Badminton
HPE 124 - Gymnastics
HPE 125 - Field Hockey & Racquetball
HPE 126 - Field Hockey
HPE 127 - Beginning Golf & Volleyball
HPE 128 - Aerobic Conditioning
HPE 129 - Archery
HPE 130 - Golf
HPE 131 - Walk Life Fitness

HPE 132 - Hydro Aerobics
HPE 133 - Trail Riding
HPE 134 - Billiards
HPE 135 - Tennis & Rackets
HPE 136 - Recreational Swimming Activities
HPE 137 - Tennis & Volleyball
HPE 138 - Tennis
HPE 139 - Volleyball & Softball
HPE 140 - Rackets
HPE 141 - Badminton & Rackets
HPE 142 - Badminton & Tennis
HPE 143 - Intermediate Swimming
HPE 144 - Intermediate Skiing
HPE 145 - Intermediate Tennis & Volleyball
HPE 146 - Intermediate Bowling
HPE 147 - Advanced Beginning Swimming
HPE 148 - Advanced Swimming
HPE 149 - Life Guard Training
HPE 151 - Advanced Badminton
HPE 164 - CPR & Aerobic Conditioning

HPE 203: 1 s.h.
Physical Education
Serves the individual with prior experience in the activity selected. Skills are evaluated and some advanced skills and strategies utilized in activities for individual, dual, and team sports.

HPE 205: 1 s.h.
Intercollegiate Athletics
Course designed as an upper-level skill class available only to individuals on varsity teams.

HPE 206: 1 s.h.
Athletic Training Lab I
An in-depth examination of the organization and administration of athletic training for the student seeking NATA certification. Clinical hours will be required to meet NATA standards. Prerq: Athletic training area of concentration and two semesters of experience as a student trainer.

HPE 207: 1 s.h.
Athletic Training Lab II
The course will examine all of the major muscles and the procedure for testing for the injury to those muscles. Clinical work under the direct supervision of a licensed NATA Certified Trainer is a part of requirements. Prereq: HPE 206.

HPE 225: 2 s.h.
Water Safety Instruction
The course will prepare students with the knowledge and practical experience in teaching swimming from the non-swimmer level to advanced swimmer.

HPE 300: 3 s.h.
Techniques of Coaching Track and Field
The participation in actual training techniques in track and field. Planning and organizing equipment for a track program will be studied.

HPE 305: 3 s.h.
Coaching and Officiating Wrestling
Practical training in the areas of wrestling fundamentals, strategy and the psychology of coaching,fundamentals of officiating, rule interpretation and preparation.

HPE 310: 3 s.h.
Special Physical Education for the Exceptional Child
A comprehensive analysis of the physically, emotionally, and socially handicapped student. Includes selected activities and achievement standards in the field of health, physical education and athletics.

HPE 315: 3 s.h.
Athletic Training
A course designed to provide experience in application of various methods in treatment of athletic injuries. A study of preventive measures and medical management of athletic injuries.

HPE 320: 3 s.h.
Basic Football
The purpose of the course is to teach the methods, techniques and psychology used in coaching football, and to give the prospective coach a knowledge of the personal problems in motivation and handling individual players.

HPE 330: 3 s.h.
Coaching Basketball
Practical training in the areas of basketball fundamental, individual and team play, strategy, and the psychology of coaching.

HPE 340: 3 s.h.
First Aid and CPR - Standard and Advanced
Theory and application of the methods, techniques and psychology used in first aid and safety. Basic, multi-media, SFAPS, and CPR certification included.

HPE 341: 3 s.h.
Advanced First Aid and CPR Recertification
To provide advanced skills and knowledge when responding to first aid situations: to certify instructors where there is a need for basic first aid, multi-media first aid, and standard first aid and personal safety: to recertify current first aiders.

HPE 350: 2 s.h.
Methods I - Teaching Health and Physical Education in Elementary School
Principles, problems, materials, and techniques for conducting the health and physical education program in the elementary schools.

HPE 360: 3 s.h.
Kinesiology
Analysis of human motion based on anatomical and mechanical principles. Applications of mechanics to sports activity. Prereq: BIO 331 and 332.

HPE 370: 3 s.h.
Physiology of Exercise
Critical analysis of physiological bases of muscular activity with special attention to general effects of exercise on body function. Prereq: BIO 331, 332, HPE 360.

HPE 375: 3 s.h.
Advanced Athletic Training
An in-depth study of detailed orthopedic evaluation of injuries to athletes. Rehabilitation of specific major joints from post-op to competition will be studied. Prereq: HPE 206, 207. 315.

HPE 376: 1 s.h.
Athletic Training Lab III
Examines the therapeutic modalities commonly used in the field of athletic training. students in the area of concentration will be required to perform clinical work under the direct supervision of a licensed NATA certified athletic trainer. Prerequisites: HPE 206, 207.

HPE 377: 1 s.h.
Athletic Training Lab IV
The use and misuse of prescription and non-prescription medication in athletics today. The student will be required to perform clinical work under the direct supervision of a licensed NATA certified athletic trainer. Prereq: HPE 376.

HPE 390: 3 s.h.
Coaching Baseball
Provides students with the knowledge, skills, and attitudes to prepare them to coach high school baseball programs dealing with organizational factors of coaching as well as the strategies and skills of the game.

HPE 420: 3 s.h.
Human Behavior in Coaching
Designed for the experienced coach as will as the future coach to acquire a better understanding of the most important and least understood aspect of athletics. The course includes appropriate techniques to teach athletics to consciously affect motivational processes.

HISTORY AND POLITICAL SCIENCE

Associate Professor McQuaid, chairperson
Associate Professors Dalmolen, Lukasz, Paskvan
Assistant Professor Reigel

The Department of History and Political Science offers a B.A. in Political Science, a B.A. in Political Science (Interdisciplinary International Studies Track), a Minor in Political Science and a Minor in International Studies.

HISTORY

The past is a living, dynamic subject and very much a part of today. This program in the humanities provides a solid background in the methods and concepts of historical investigation and introduces students to the various schools of historical interpretation. It includes courses in American, European, and Third World history, as well as a wide variety of general arts and sciences courses. The research and writing skills developed in this program open opportunities in many areas. Some careers: History is excellent preparation for law school. Combined with the appropiate courses, it provides a good background for journalism. Producers of television shows, documentaries, and movies, with settings in the past, all have research staffs to insure historically accurate productions. History graduates work in such diverse careers as editing publications, management, foreign service, and museums.

POLITICAL SCIENCE

This program provides a general background in American politics, comparataive politics, international relations, public administration, and political theory. Some courses include political parties and interest groups, political leadership, state and local politics, policy formation and implementation, constitutional law, and government and business in society, among others. With close advisement, courses may be selected in preparation for graduate school in several fields, including law, public administration, urban affairs, and journalism.
Some careers: Local, state and federal government agencies.

COURSE REQUIREMENTS

History Major (B.A.): 128 s.h.
HST 101 or 102; HST 201 or 202; HST 300; HST 496; Third World Hst; THird World ANH, GEG, HST, PSC. Then 15 s.h. of history electives, 300/400 level required. No more than 12 s.h. in any one area.

Social Studies (B.S.E.): 128 s.h.
Secondary Education Certification
History Option
HST 300 and 12 s.h. in history electives. For divisional requirements see Social Studies.

History Minor: 18 s.h.
HST 101 or 102; HST 201 or 202; then 12 s.h. of history electives (minimum 6 s.h. 300/400 level)

Political Science (B.A.): 128 s.h.
PSC 100; PSC 201; PSC 210; PSC 235; 24 s.h. of political science electives, at least 18 of which must be at the 300/400 level.

Political Science (Interdisciplinary International Studies Track) (B.A.): 128 s.h.
PSC 201; PSC 210; PSC 212; ANH 101; GEG 101; ECO 333; 6 s.h. of advanced courses in a foreign language; 6 s.h. from the following HST 366, HST 376, HST 385, HST 386,

HST 387, HST 388; ANH 301 or ANH 308; 6 s.h. from PSC 312, PSC 412, PSC 415; 6 s.h. from HST 101, HST 102, ECO 201

Social Studies Major (B.S.E.): 128 s.h.

Secondary Education Certification
Political Science Option
15 s.h. electives in Political Science. For divisional requirements see Social Studies

MINOR IN POLITICAL SCIENCE: 18 s.h.
9 s.h. from PSC 100 or PSC 235, PSC 201 or PSC 202, PSC 210 or PSC 212. 9 s.h. of Political Science electives at the 300 and/or 400 level.

MINOR IN INTERNATIONAL STUDIES: 21 s.h.
ANH 101; GEG 101; PSC 210; PSC 212. 3 s.h. from HST 366, HST 376, HST 385, HST 386, HST 387, HST 388. 6 s.h. from ANH 301, ANH 308, PSC 312, PSC 412, PSC 415, ECO 333.

COURSE DESCRIPTIONS

HST 101: 3 s.h.
Western Civilization I (G1)
A survey of significant ideas, events, and cultural developments in Western history from the emergence of ancient civilization to early modern times (circa 1660).

HST 102: 3 s.h.
Western Civilization II (G1)
A continuation of 101, beginning with the early modern times to the present, including the political, economic, and social forces which affect our world today.

HST 104: 3 s.h.
The World in the Twentieth Century (G1
A study of the forces and concepts operating in the modern world with emphasis on the trouble spots at the present time.

HST 201: 3 s.h
American History Through the Civil War (G1)
A survey of American history covering the 17th-century colonization; independence and formation of the Federal Union; nationalism, sectionalism and growth of democracy in the 19th century; and the Civil War.

HST 202: 3 s.h.
American History - Reconstruction to the Present (G1)
A continuation of 201, covering significant trends and events in the rise of modern industrial America, its emergence as a world power and events through the 1980's.

HST 205: 3 s.h.
History of Sports in American Society
Topics include evolution of major sports, influence of organization and technology, critics of sports, racism, a comparison with sports in other countries, the role of women and labor relations within sports, sports in the school, and various sports heroes.

HST 210: 3 s.h.
Herstory: The American Side of Women's Past
Explores the life stories, experiences, and thoughts of American women 1607-present. Themes are changing expectations of women and men in society, women in the labor force, and the equal rights movement.

HST 215: 3 s.h.
Introduction to Third World
A general survey of the third world emphasizing the development of civilizations, religions, cultures, and politics and the various philosophies employed to understand the third world.

HST 220: 3 s.h.
World War II
The origin, background, and course of World War II and its effects upon world affairs. Deals with battles and the scientific, psychological, political, and economic impact of the war.

HST 225: 3 s.h.
Intro to American Military History
We trace the American military experience from its European origins to the present time. The evolution of U.S. military history is examined along institutional and operational lines with emphasis on land warfare. Selected lessons complement this focus by showing developments in naval and air warfare, and by examining major trends in European military history.

HST 232: 3 s.h.
Aztecs, Incas, Mayas
A study of the achievements, values, and organization of three Indian societies before the arrival of Columbus. Covers a number of multi-disciplinary topics including the nature of societal evolution, the benefits of alternative systems of government and justice, the purpose of polytheistic religions, and the reasons for the decline of a civilization.

HST 250: 3 s.h.
East European History
East European cultures, peoples, and states, with emphasis on the rise and development of national consciousness (1800-1950).

HST 295: 1-3 s.h.
Topics in History
A special area that is of current interest. May be taken for one through three credits.

HST 300: 3 s.h.
Historiography
Introduces the student to the discipline, methods, and techniques of historical research and writing. Examines the major interpretations of history and historiographical writings. Prereq: one history course or permission of instructor.

HST 301: 3 s.h.
History of Colonial America to 1788
The exploration and settlement of North America with emphasis on the English colonies and their political, social, and economic developments. Prereq: one history course or permission of instructor.

HST 302: 3 s.h.
Constitution to Manifest Destiny (1789-1850)
The movement for American independence and events during the Revolutionary War and early national period. Prereq: one history course or permission of instructor.

HST 304: 3 s.h
History of the Civil War and Reconstruction
Sectional controversy; constitutional issues, secession and military conflict; the aftermath of the war, North and South, with emphasis on political development during reconstruction ending. Prereq: one history course or permission of instructor.

HST 306:
America Between the Wars
American politics, diplomacy and society in World War I, the nervous Twenties, the Depression Decade, and World War II. Prereq: one history course or permission of instructor.

HST 307: 3 s.h.
Contemporary America
American political, diplomatic, and social developments in the Atomic Era. Watergate, Viet Nam and Civil Rights are key points studied. Prereq: one history course or permission of instructor.

HST 310: 3 s.h.
Afro-American Experience
African heritage, Atlantic slave trade, American slavery, Civil War and Reconstruction, segregation and disfranchisement, the Harlem Renaissance, and Black Revolution, black resistance, and the quest for a black identity. Prereq: one history course or permission of instructor.

HST (SWK)315: 3 s.h
History of Social Work in America
The development of the public welfare systems as a mirror reflecting Americans' changing attitudes toward misfortune and relief. Centers upon a central issue of historical evaluation and contemporary policy: the appropriate balance between assistance-security and work-independence objectives in public welfare efforts. Prereq: one history course or permission of instructor.

HST 340: 3 s.h.
The Ancient World
Growth and development of cultural, social, and intellectual foundations that formed the basis of our present institutions. Classical life and thought will be analyzed through a study of the great civilizations of Greece and Rome. Prereq: one history course or permission of instructor.

HST 345: 3 s.h.
Middle Ages: Life and Style
The political, socio-economic, and cultural development of the civilization of Medieval Europe from the fall of Rome to the Medieval synthesis in the High Middle Ages. Prereq: one history course or permission of instructor.

HST 346: 3 s.h.
Renaissance and Reformation
Political, social, economic, and cultural forces involved in the transition from Medieval Western society with attention to the rise of national states and the growth of individualism. Reformation is highlighted. Prereq: one history course or permission of instructor.

HST 351: 3 s.h.
Rise of Modern England
A survey of the social, political, economic, and constitutional themes that have shaped modern England since 1688. Prereq: one history course or permission of instructor.

HST 359: 3 s.h.
Russia: Beginning to 1917
Russian historiography, nature, and development of the Russian Empire from the time of Peter I to the Revolution of 1917. Compares development of Russia with states and examines the roots underlying the modern Soviet state. Prereq: one history course or permission of instructor.

HST 366: 3 s.h.
Twentieth Century Europe
A study of the political, economic, cultural, and international developments in Europe during the twentieth century. Particular attention is given to the background problems which led to the two World Wars and their global impact and significance. Prereq: permission of instructor.

HST 376: 3 s.h.
Modern Latin America
A modern period emphasizing the difficulty in creating a national self-identity, the impact of liberal and conservative philosophies on the 19th century, and the viability of revolutionary vs. non-revolutionary approaches to the problems of 20th-century Latin America. Prereq: one history course or permission of instructor.

HST 385: 3 s.h.
History of the Middle East
The major political, economic, and cultural features of the Middle East with particular emphasis on modern colonialism in the area, Zionism, and the Arab States' contemporary relations with other nations. Prereq: one history course or permission of instructor.

HST 386: 3 s.h.
History of Southeast Asia
Peoples and states of Southeast Asia, Burma, Thailand, Cambodia, Laos, Vietnam, Malaysia, Indonesia, the Philippines, and includes the age of imperialism, colonialism, nationalism, and independence. Prereq: one history course or permission of instructor.

HST 387: 3 s.h.
History of East Asia
Traditional cultures and institutions of China and Japan and their roles in Korea and Southeast Asia; the role of Western powers in China's development; post-war changes; United States foreign policy in relation to the Far East; and the emergence of Communist China and Modern Japan are discussed. Prereq: one history course or permission of instructor.

HST 388: 3 s.h.
History of Africa
After an introduction to the history of Africa prior to European colonization and a brief examination of colonialism on the continent, the course will focus on sub-Sahara Africa for the period from post World War II until the present, examining colonialism, nationalism, independence and continuing crises and problems of the nations of the continent. South Africa also will be emphasized. Prereq: one history course or permission of instructor.

HST 389: 3 s.h.
Vietnam War
Examines the historical, military, political, religious, and social aspects of the war. Includes the effect on Vietnam politically and culturally. American domestic concerns, international aspects and consequences will be covered. Prereq: HST 202 or permission of instructor. Dual listed with 589.

HST 401: 3 s.h.
History of Pennsylvania
The founding and development of Pennsylvania, emphasizing the social, political, and economic characteristics of the Commonwealth; the diversity of its people; local and family history is an important aspect. Prereq: one history course or permission of instructor.

HST 406: 3 s.h.
The Westward Movement in America
Settlement of the geographic areas and the influence of westward expansions on the political, social and economic development of the American people. Includes the trans-Mississippi West and role of the Plains Indian in American history. Prereq: one history course or permission of instructor.

HST 415: 3 s.h.
Modern American Diplomacy
Explores American diplomacy from the Spanish American War through recent events. Included are the techniques, purposes, and problems of diplomacy. Prereq: HST 202 or permission of instructor.

HST 430: 3 s.h.
The American Indian: From Bering to Red Power
Covers the origins, culture, and history of the American Indian. The development of Indian policy by colonial rulers and the United States is studied and compared. Problems of assimilation and cultural conflict resulting from removal as well as modern Indian problems. Prereq: one history course or permission of instructor.

HST 444: 3 s.h.
Introduction to Historical Museums, Preservation and Societies
Provides a broad background regarding museum work, historical societies and their function, and historical preservation. Prepares students for internships and potential careers in the field of museumology and preservation. Prereq: one history course or permission of instructor.

HST 450: 3-12 s.h.
Internship
Provides pre-professional skills. Museum and archival work are examples of areas in which students can bring together academic training and practical experience. Prereq: permission of department chairperson, sponsoring instructor, and an agency. May be taken for three through twelve credits.

HST 451: 3 s.h.
France: From the Revolution to the Present
Introduction to the social, political, economic, and constitutional themes that have shaped modern France since 1789. Prereq: one history course or permission of instructor.

HST 458: 3 s.h.
The Soviet Union
Study of the Bolshevik Revolution and the founding of the Soviet Union with emphasis on the internal and external factors involved in world Communism and Soviet power politics. Prereq: one history course or permission of instructor.

HST 470: 3 s.h.
History of Mexico
Explores pre-Columbian civilizations to the present. Studies the interaction of various racial groups, the formation of a distinct Mexican national identity, and Soviet power politics. Prereq: one history course or permission of instructor.

HST 496: 3 s.h.
Seminars on Selected Topics
In-depth knowledge of historical methodology and research. Significant historical problems are selected for oral discussion. Prereq: one history course or permission of instructor.

HST 497: 1-3 s.h.
Independent Study

Political Science

Political Science 100: 3 s.h.
Introduction to Politics (G5)
Examines major concepts, institutions, processes, actors and issues in modern politics. Emphasis on universal trends and themes.

PSC 201: 3 s.h.
American Politics (G5)
Examines political principles and processes, governmental institutions and mechanics of governing in the United States.

PSC 202: 3 s.h.
State and Local Politics (G5)
Examines political principles and processes, governmental institutions and mechanics of governing the states and their local units.

PSC 210: 3 s.h.
World Politics (G5)
Examines international relations in our time. Emphasis on the goals and behaviors of nation-states, the causes of regional conflicts and the search for solutions to global problems.

PSC 212: 3 s.h.
Comparative Politics (G5)
Examines the politics of representative countries. Emphasis on political cultures, processes, institutions and policies, as well as forces creating consensus, conflict, stability and instability.

PSC 235: 3 s.h.
Research Methods
Examines the research methods used in the discipline of political science. Emphasis on preparation and evaluation of a research project.

PSC 301: 3 s.h.
Participation and Elections
Examines the role of social and political institutions in shaping partici-pation and voting behavior, as well as ways individuals acquire political knowledge, attitudes and opinions.

PSC 312: 3 s.h.
Canada, Mexico, U.S.
Examines the political systems of Canada, Mexico and the U.S., as well as relations among them. Emphasis on political cultures, institutions, proces-ses, policies and NAFTA.

PSC 320: 3 s.h.
Public Policy
Examines the public policy process. Emphasis on analyzing both causes and consequences of government activity.

PSC 324: 3 s.h.
Administration of Justice
Examines America's court system. Emphasis on its structure, functions, procedures, processes and significant actors as they operate within our society.

PSC 328: 3 s.h.
Political Economy
Examines the relationship between politics and economics in modern society. Emphasis on democracy and capitalism in America and on the role of government in the U.S. economy.

PSC 333: 3 s.h.
Modern Ideologies
Examines the content and impact of modern ideologies from the French Revo-lution to the present. Emphasis on liberalism, conservatism, socialism, anarchism, fascism and variations of these.

PSC 402: 3 s.h.
President and Congress
Examines the Executive and Congress as both governmental and political institutions, as well as the ongoing relationship between them.

PSC 404: 3 s.h.
Courts and the Constitution
Examines general principles of the U.S. Constitutional system and the role of the judiciary in interpreting individual rights.

PSC 412: 3 s.h.
Topics in Comparative Politics
Examines in depth the politics of a particular country or group of countries (e.g., developing countries, the European Union, former Communist states, China and Japan).

PSC 415: 3 s.h.
U.S. Foreign Policy
Examines the content and process of U.S. foreign policy since 1900. Emphasis on interests, objectives and strategies in key regions, as well as domestic forces and constraints.

PSC 450: 1-15 s.h.
Internship
Designed to provide actual experience in the work of an agency and an under- standing of the agency's philosophy, goals, position in the community and role in the political system.

PSC 450: 1-3 s.h.
Independent Study
An activity initiated by the student to increase his/her already advanced knowledge in political science. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field.

MATHEMATICS AND COMPUTER AND INFORMATION SCIENCES

Associate Professor Lienhard, chairperson
Professors Robinson-Slabey, Walker
Associate Professors Engel, Krantz, Lienhard, Mumma, Werner S
Assistant Professors D'Ortona, Iseri, Savoye, Schuerman, Werner J

The Department of Mathematics and Computer Information Science offers six baccalaureate degree programs, one associate degree program, and five minor areas of study.

The department has programs in two distinct disciplines: Mathematics and Computer Science.

In Mathematics the department offers the following four baccalaureate degree programs: B.A. Mathematics, B.S. Mathematics (applications-oriented), B.S. Mathematics - Actuarial Science Track, and, B.S.E. Mathematics (secondary education). There are two minors in the Mathematics area, one in Mathematics and the other in Statistics. See below for curriculum outlines.

In Computer Science the department offers two baccalaureate degree programs: One with an emphasis in Computer Science and the other with an emphasis in Information Systems. An associate degree in Information Systems is available. There are three minor areas of study in Computing: Computer Science, Information Systems, and General Computing. Students that major in one emphasis can minor in the other with only a little additional course work. Also, some students majoring in Computer Science may choose to do a dual major with Information Systems. Some students majoring in Information Systems may choose to do a dual major with a program in the Business and Economics Department. These dual majors and major/minor strategies can be valuable assets when entering the job market. See below for curriculum outlines.

COURSE REQUIREMENTS

Minors

Computer Science Major (B.S.): 128 s.h.

The Computer Science track focuses on the more technical and mathematical aspects of computing. The requirements below are sufficient for majors to declare a mathematics minor without additional course work.

33 s.h consisting of CIS 104, 105, 204, 205, 301, 310, 325, 330, 335, 340 or 490, 430;12 s.h. major-related electives; 12 s.h. math courses MA 260, 314 and 6 s.h. at 200 level or higher; MA 231, 323 and a year-long lab science sequence

Information Systems Major (B.S.): 128 s.h.

The Information Systems track focuses on the systems and business aspects of computing. Most students also declare a business-related minor. With a modest amount of additional course work, students can complete a dual major with Accounting, Business Administration, or Marketing.

30 s.h. consisting of CIS 104, 105, 204, 205, 301, 308, 310, 330, 340 or 490, 430; 12 s.h. major related electives; 15 s.h. consisting of ACC 110, 111, 315 or 350, BUS 130, Bus 230; 12 s.h. consisting of MA 125 or 314, MA 129 or 260 or 280, MA 170 or 231, ECO 101 or 102.

Mathematics Major (B.A.): 120 s.h.

The B.A. degree program in Mathematics is a flexible curriculum designed to accommodate the widest possible range of career objectives. It is structured according to the traditional liberal arts approach to college education.

42 s.h. consisting of MA 231, 232, 260, 280, 314, 345, & 15 s.h. at 300/400 level; PHY 210, 211; second year foreign language proficiency or a minor is required.

Mathematics Major (B.S.): 120 s.h.
The B.S. degree program is more specifically applications-oriented. With more specified courses in mathematics, it is somewhat less flexible than the B.A. program.

42 s.h. consisting of MA 231, 232, 233, 260, 280, 311, 312, 314, 345 & 9 s.h. at 300/400 level; PHY 210, 211.

Mathematics Major (B.S.) - Actuarial Science Track: 120 s.h.
The B.S. degree program with the Actuarial Science track is also more specifically applications-oriented. With more specified courses in Mathematics and additional related courses, this program is designed to prepare students for careers in the areas of the actuarial sciences.

42 s.h. consisting of MA 231, 232, 260, 280, 308, 310, 314, 371, 372 & 6 s.h. of 300/400 level & 3 s.h. at 400 level; PHY 210, 211; ECO 101, 102, ACC 110, 111, BUS 130.

Mathematics Major (B.S.E.): 128 s.h.
Secondary Education Certification
The B.S.E. program is the degree and certification program for prospective secondary teachers of mathematics. In addition to having mathematics course requirements comparable to those of the three other programs, the B.S. in Education requires appropriate educational methods courses.

42 s.h. consisting of MA 231, 232, 260, 280, 304, 314, 329, 361 & 12 s.h. at 300/400 level; 17 s.h. consisting of PHY 210, 211, HST 201 or HST 202, PSY 101, 321; 34 s.h. consisting of ED 101, 202, 301, 302, 305, 310, 314, 400, 410, SPE 360.

Computer Information Systems, Associate Degree (A.S.): 60 s.h.
The Associate Degree program provides a liberal arts and professional preparation for entry-level jobs in data processing or computer software office applications. Students with this degree can also easily transfer into the B.S. program in Information Systems.

15 s.h. consisting of CIS 103, 104, 203, 204, 303; 6 s.h. consisting of two CIS courses at 300/400 level, with Advisor approval; 9 s.h. consisting of ACC 110, 111, BUS 230; ECO 101 or 102, MA 125, ENG 230, PHL 230.

Minors

Computer Science Minor: 18 s.h.
The Computer Science minor provides a strong background in computation and programming for students majoring in a technical, scientific, or mathematical area.

12 s.h. consisting of CIS 104, 204, 301, 330; 6 s.h. consisting of two CIS courses at 300/400 level

Information Systems Minor: 15 s.h.
The Information Systems minor provides a strong background in office applications software and systems analysis for students majoring in business-related fields of study.

15 s.h. consisting of CIS 103 or 303, 203, 308, 310, 401

General Computing Minor: 18 s.h.
The General Computing minor provides a solid background in computing that is custom-tailored to the student's field of study. This minor is primarily intended for students in majors other than business, mathematics, and the sciences.

12 s.h. consisting of CIS 103, 104, 203 or 204, 303; 6 s.h. in computer related courses.

Mathematics Minor: 17 s.h.
The minor in mathematics provides a strong background in mathematics but is flexible enough to be tailored to a variety of different majors.

MA 231, 232, 314;6 s.h. of two math courses at 200 level or above.

Statistics Minor: 15 s.h.
The minor in statistics provides a strong background in statistics useful in many disciplines. Students may tailor this minor to their interests by careful choice of courses.

12 s.h. from MA 125, 126, 301, 308, 314, 371; 3 s.h. from ECO 305, 405, PSY 201, BIO 401, BUS 250, CIS 205, NUR 360, SOC 308

COURSE DESCRIPTIONS

Computer and Information Science

CIS 103: 3 s.h.
Introduction to Microcomputers
Introduces MS-Windows and MS-DOS for microcomputers and the use of word processing, spreadsheet, and data base management software.

CIS 104: 3 s.h.
Computer Science I
Introduces a high-level programming language as a means of studying problem solving, algorithms, and program structure. Includes data representation, repetition, selection, modular programming, debugging, and verification of programs.

CIS 105: 3 s.h.
Business Programming Concepts I
An introduction to analyzing and designing solutions to business-related problems using a business programming language. Prereq: CIS 104.

CIS 203: 3 s.h.
Software for Business Applications
Advanced applications of spreadsheets, data base management systems and graphics. Prereq: CIS 103.

CIS 204: 3 s.h.
Computer Science II
Emphasizes algorithms, structured programming and program analysis and design. Topics include files, records, recursion, string manipulation, graphics, and dynamic data structures. Prereq: CIS 104.

CIS 205: 3 s.h.
Business Programming Concepts II
A second course in business programming stressing file processing and advanced programming techniques. Prereq: CIS 105.

CIS 300: 3 s.h.
Programming Languages
Comparative study of current programming languages. Examines the structure of languages and their use in problem solving. Prereq: CIS 204 and 330.

CIS 301: 3 s.h.
Data Structures
Topics covered are data types, arrays, records, stacks, queues, linked lists, and trees. Other more advanced topics may include: file structures, recursion, heuristics, and hashing. Prereq: CIS 204.

CIS 303: 3 s.h.
Computer Networks
Introduces the concepts of data communications, including the transmission of voice, data, and images. The Internet and local area networks are the focus of the course.

CIS 308: 3 s.h.
Operations Research
The development and use of the techniques of operations research. Topics include linear programming, queuing theory, probabilistic inventory models and simulation. Prereq: CIS 203 or 204; MA 125 or 314; MA 129, 260 or 280; MA 170 or 231.

CIS 310: 3 s.h.
Systems Analysis
An introduction to the concepts of systems analysis and design. Problem definition; data gathering, information analysis, presentation techniques, implementation planning, system controls, documentation. Prereq: BUS 130, and CIS 103 or 105.

CIS (ACC) 314: 3 s.h.
Automated Accounting Systems
Introduction to the development and implementation of an accounting information system. Prereq: ACC 315 and CIS 203 or permission of instructor.

CIS 320: 3 s.h.
Computer Architecture
Classification of computers. Defining hardware and software interfaces within a computer system. Special purpose architectures. Prereq: CIS 330

CIS 325: 3 s.h.
Operating Systems
Functions and characteristics of an operating system: concurrent processes, system nucleus, memory management, input and output, filing system, resource allocation and scheduling, system protection and reliability, and job control. Prereq: CIS 301 and 330.

CIS 330: 3 s.h.
Computer Organization
Overview of computer hardware, computer structure, machine representation of information, instruction codes, addressing, concepts of digital logic, microprogramming and assembly language programming. Prereq: CIS 104.

CIS 335: 3 s.h.
Assembly Language Programming
Explores assembly language programming including macro and subroutines. Emphasis will be on application and systems programming including machine organization for a general purpose computer. Prereq: CIS 204 and 330.

CIS 340: 3 s.h.

Database Systems
First course in the theory and use of database management system. Provides experience in the creation of an actual database system and the manipulation of the data in it. Prereq: CIS 205 and 301.

CIS 361: 3 s.h.
Analytical Methods of Information Science
The study of key mathematical developments in computer science. Topics will include: sets, functions, relations, graphs, and digraphs. Other computer-specific topics may include: recursion, finite state machines, formal language theory, list processing support for management and decision functions. Prereq: CIS 204 and 330.

CIS 401: 3 s.h.
Management Information Systems
Advanced study of information processing systems which provide transactional processing for an organization and information and processing support for management and decision functions. Prereq: CIS 310.

CIS 420: Credit Arranged
Special Problems in Computer Applications
Study of a specialized topic. Possible topics include Computer Aided Design, Data Base Systems, Telecommunications, Advanced Business Programming

CIS 430: 3 s.h.
Program Translation
The theoretical aspects of program translation: Compilers, assemblers, and interpreters. Prerequisite: CIS 301 and 330.

CIS 440: 3 s.h.
Artificial Intelligence
The application of computers to solve problems and to understand the principles of human intelligence including search, reasoning, and problem reduction. Applications to games, expert systems, natural language, learning, robotics, and computer vision. Prereq: CIS 204.

CIS 441: 3 s.h.
Switching Theory and Logic Design
An introduction to electronic circuits used in digital systems including computers, instruments, communications systems, and control systems. Topics include Boolean algebra, switching theory, logic design, and major digital circuit lines. Prereq: CIS 204 and 330.

CIS 450: 1-12 s.h.
Organizational Internship
Supervised and evaluated participation in the regular activities of a business, government agency, or appropriate organization. In consultation with the supervising faculty members, the student is expected to prepare a comprehensive final report relating to the work accomplished during the field experience. May be taken for one through twelve credits. A maximum of six credits will count toward the major.

CIS 490: 3 s.h.
Computer Communications
First course in data and computer communications. Communication principles, computer requirements, networking, standards, and future trends and issues will be examined. Prereq: CIS 330.

CIS 497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

Mathematics

MA 104: 3 s.h.
Intermediate Algebra (G6)
A second course in algebra. Topics include factoring, algebraic functions, exponents and radicals, linear and quadratic equations, inequalities, linear systems, graphic techniques and word problems. This course is not given for general education credit.

MA 115: 3 s.h.
Survey of Math (G4)
A liberal arts course designed to acquaint the student with the nature and scope of modern mathematics. Emphasis is on concepts and understanding rather than the ac-

quisition of technique. Topics included are suitable for the non-science liberal arts student. No extensive background in algebra is required.

MA 117: 3 s.h.
Mathematics and Culture (G4)
Readings and discussions about mathematics and mathematicians. This course is designed to introduce the student to the role of mathematics in culture. This is not a course in practical mathematics: it is not designed to improve mathematical skills. It attempts to give students a better understanding of what mathematics is and why it is important. In doing this students will frequently be involved in discussions of the closely related fields of history, science and philosophy.

MA 125: 3 s.h.
Introductory Statistics (G4)
A survey of basic statistical methods for analyzing data. Topics include: descriptive statistics, point estimation, and testing of hypotheses.

MA 126: 3 s.h.
Statistical Computing and Applications (G4)
This course will explore interesting data intensive applications through statistical computerized analysis. The course will apply concepts studied in MA 125, Introduction to Statistics, and use computer software to conduct data manipulation and analysis. Prereq: MA 125 or MA 314.

MA 127: 3 s.h.
Introduction to Computer Programming (G4)
Fundamentals of computer programming applied to university computers. Use of computer language to solve practical problems pertinent to science, business and other disciplines. Laboratory includes use of terminals and the university computer.

MA 129: 3 s.h.
Finite Mathematics (G4)
An initial treatment of those topics in basic mathematics that are of special importance in the social and natural sciences and business. Topics included are matrices, linear programming, counting techniques, probability, mathematics of finance, Markov chains and game theory.

MA 165: 3 s.h.
Precalculus Mathematics (G4)
This course is intended to prepare students for the study of calculus. Topics include functions, graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry. Prereq: MA 104 or equivalent.

MA 170: 3 s.h.
Fundamentals of Calculus (G4)
A one semester course in the fundamental concepts of calculus for business and non-physical science majors utilizing the basic techniques of differential and integral calculus. This course is not available for students who have completed MA 231. Prereq: MA 104 or equivalent

MA 180: 3 s.h.
Programming for the Mathematical Sciences (G4)
Fundamentals of computer programming applies to the areas of mathematics, physics, engineering, and the physical sciences. An in-depth study of a computer language and how this language, with the computer, can answer questions in mathematics and the physical sciences. The university computer will be used as an aid to investigating these areas. Prereq: MA 231 or MA 170 (or concurrent enrollment)

MA 203: 3 s.h.
Topics in Algebra and Geometry (G4)
A study of the basic ideas and structures in modern mathematics, including topics from arithmetic, algebra, and geometry. Pre-requisites: None, but this course is designed primarily for elementary and special education students.

MA 231: 4 s.h.
Calculus I (G4)
This course is the first in a three-semester sequence intended for Mathematics, Science and Engineering majors. The purpose of this course is to develop a good understanding of the derivative and its uses, to introduce the definite integral, and to establish the important relationship between the derivative and the definite integral. Prereq: MA 165 or placement by the Mathematics Department

MA 232: 4 s.h.
Calculus II (G4)
This course is a continuation of MA 231. The purpose of this course is to develop a good understanding of the definite integral and its uses, and to develop basic integration techniques. Differential equations, Taylor polynomials, and series are also covered. Prereq: MA 231 or equivalent

MA 233: 4 s.h.
Calculus III (G4)
This course is a continuation of MA 232. The purpose of this course is to investigate functions of two or more variables. Topics include graphing functions of two or more variables, partial derivatives, vectors, optimization, double and triple integrals, and line and surface integrals. Prereq: MA 232 or equivalent

MA 260: 3 s.h.
Discrete Structures (G4)
Foundations of mathematics, emphasizing fundamental concepts in abstract mathematics and deductive reasoning. Topics will include logic, sets, functions, relations, number systems, and abstract systems.

MA 280: 3 s.h.
Linear Algebra and Matrix Theory (G4)
Topics: Geometry of vectors, matrix algebra and operations, solutions of general systems of linear equations, inversion of matrices, determinants, vectors and vector spaces, subspaces, linear independence, bases and dimension, linear transformations, characteristics roots and vectors, applications. Prereq: MA 232

MA 301: 3 s.h.
Survey of Mathematical Models (G4)
A course in upper level mathematics that is available to the non-mathematics major. The course will be a survey of different mathematical models, some deterministic and some stochastic, requiring no Calculus background, designed to show non-trivial applications. Computer use will be emphasized. Prereq: MA 125 or MA 129 or MA 127 or MA 180

MA 304: 3 s.h.
History and Philosophy of Mathematics (G4)
A study of the chronological development of mathematics from Egyptian and Babylonian mathematics to the twentieth century. Emphasis will be placed on the major trends and great moments in mathematics, and on the great mathematicians and their contributions. Prereq: MA 260

MA 308: 3 s.h.
Operations Research (G4)
The development and use of the techniques of operations research. Topics include linear programming, queuing theory, probabilistic models, networks, Markov chains, and simulation. Prereq: Ma 232, MA 260 or 280, MA 125 or 314.

MA 310: 3 s.h.
Numerical Analysis (G4)
A study of numerical methods for the solution of algebraic, transcendental and differential equations, numerical integration and differentiation, and error analysis. Prereq: MA 127 or MA 180, and MA 232

MA 311: 3 s.h.
Differential Equations I (G4)
Classical methods of solution of ordinary and partial differential equations, including Power Series methods. Transform and Fourier methods. Extensive applications to various disciplines, including circuits, population dynamics, and epidemiology. Prereq: MA 232 (may be taken concurrently)

MA 312: 3 s.h.
Differential Equations II (G4)
Additional work in partial differential equations and boundary value problems, numerical methods, qualitative treatment of differential equation in Phase Plane, stability issues. Prereq: MA 311, MA 280 (The latter course may be taken concurrently.)

MA 314: 3 s.h.
Applied Probability and Statistics (G4)
An introduction to applications of descriptive and inferential statistics and probability. Frequency distributions, measures of location and variation, probability, expected value and decision making, probability distributions, sampling and sampling distributions, inferences concerning means, standard deviations, and proportions, regression and correlation. Prereq: MA 232 or MA 170

MA 315: 3 s.h.
Applied Regression Analysis (G4)
Simple and multiple regression will be used to analyze data. Residual analysis, indicator variables, step-wise and polynomial regression. Computer software will be used to aid in the data analyses. Prereq: MA 125 or MA 314

MA 324: 3 s.h.
Applied Mathematics (G4)
A study of several areas of applied mathematics (other than differential equations), i. e. ,vector analysis, Fourier Series, special functions, coordinate transformations and tensors. Prereq: MA 232 and MA 280

MA 329: 3 s.h.
Modern Geometry I (G4)
In this course, basic Euclidean, hyperbolic, and projective concepts are developed or reviewed from the respective axiom sets; and differences in consequences of the axiom systems are stressed. Classical problems and theorems are investigated in light of contemporary mathematics.

MA 330: 3 s.h.
Modern Geometry II (G4)
This course gives priority to the Euclidean axiomatic structure. Preliminary attention is given to faulty argument, flaws in Euclid's treatment of geometry, and to shortcomings in the usual presentation of basic geometric concepts. A need for explicit, independent,

and consistent basic assumptions is generated throughout the course: and the significance of Euclid's parallel axiom is developed through the study of geometry without any axiom on parallelism. During the second half of the semester, attention is given to consequences of altering the axiomatic structure; thus promoting basic understanding of such structures as hyperbolic and projective non-Euclidean geometries. Prereq: MA 329.

MA 332: 3 s.h.
Applied Combinatorics (G4)
Applied discrete mathematics emphasizing combinatorics and graph theory. Topics will be chosen from counting methods, generating functions, recurrence relations, inclusion-exclusion, the polya enumeration formula, graph theory, covering circuits, trees and searching and network algorithms.

MA 335: 3 s.h.
Number Theory (G4)
This course provides an introduction to such basic number theoretic concepts as divisibility, congruence, and quadratic reciprocity. Number theory provides a vehicle in which the student can strengthen concepts learned in other mathematics courses and can focus (1) varied techniques of problem solving, (2) reasoning ability, and (3) determination. Prereq: MA 232, 260

MA 345: 3 s.h.
Real Analysis I (G4)
The real number system, functions, sequences, series, limits, continuity, differentiation, integration and (possibly) functions of several variables will be studied. Emphasis is placed on theory and proof. Prereq: MA 233 and MA 260

MA 346: 3 s.h.
Real Analysis II (G4)
This is a continuation of Real Analysis I (which is a pre-requisite for the present course). Topics include partial differentiation, infinite series, power series, uniform convergence, improper integrals, line and surface integrals, special functions, and functions of several variables. Emphasis is placed on theory and proof. Prereq: MA 345

MA 348: 3 s.h.
Complex Variables (G4)
A first course in complex variables. Topics include complex numbers, analytic functions, elementary functions, mappings by elementary functions, integrals, power series, residues, poles, conformal mappings. Prereq: MA 233

MA 361: 3 s.h.
Modern Algebra I (G4)
Groups, rings, integral domains, and fields. Prereq: MA 260 or permission of instructor

MA 362: 3 s.h.
Modern Algebra II (G4)
Groups, rings, integral domains, and fields. A continuation of MA 361. Prereq: MA 361

MA 371: 3 s.h.
Mathematic Statistics I (G4)
Distribution of discrete and continuous random variables, expected values and moments, conditional probability and independence, special discrete and continuous distributions, derived distributions. Prereq: MA 233

MA 372: 3 s.h.
Mathematical Statistics II (G4)
A continuation of MA 371: Interval estimation, order statistics, point estimation, tests of hypothesis. Prereq: MA 371

MA 381: 3 s.h.
Topology (G4)
This course presents the fundamental concepts of elementary point-set topology. Topics include set theory, metric spaces, topological spaces, connectedness, compactness, and their applications. Prereq: MA 232 and MA 260

MA 401: Credit Arranged
Selected Topics in Mathematics (G4)
Selections from some of the branches of mathematics not covered in other courses. The course can include topology, complex analysis, real analysis, topics from abstract algebra, and applied mathematics. Prereq: permission of instructor

MA 402: 1-3 s.h.
Seminar (G4)
Papers from the American Mathematical Monthly, comparable journals, and various references will be presented and discussed by the students. Continuous reading and participation will be required. Variable credit with a minimum of 1 credit and a maximum of 3 credits. Could be repeated for a maximum total of 6 credits. Prereq: Permission of instructor.

MA 450: 3-12 s.h.
Mathematics Internship (G4)
A full time practicum in business, industry, government or other mathematics related occupations. The internship is supported by college supervision and on-site informal seminars and tutorials. Prereq: Recommendation by department faculty.

MA 497: 3 s.h.
Independent Study in Mathematics (G4)
An activity initiated by the student to increase his/her already advanced knowledge in mathematics. The topics selected in mathematics are examined with guidance by a faculty member who has special expertise in that particular branch or mathematics. Prereq: Sufficient background for the study.

MUSIC

Assistant Professor Murphy, chairperson
Professor Owens, assistant chairperson
Professors Brown, Galloway, Wunderlich
Associate Professors Amchin, Borsheim, Boston, Dettwiler, Kim, Sarch
Assistant Professors Brennan, Eidenier, McEuen, Monaghan, Rainbolt, Teal
Instructors Cohen, Laib, Stalker

The Music Department offers five degree programs leading to the baccalaureate degree with a major in music.

The Bachelor of Music in Music Education Degree has been given accreditation by the National Association of Schools of Music the Pennsylvania Department of Education, National Council of Accreditation of Teacher Education, and the Middle States Association of Colleges and Secondary Schools. Completion of the degree requirements leads to certification by the Commonwealth of Pennsylvania for the recipient to teach all music: kindergarten through high school, vocal and instrumental.

The Bachelor of Music in Music Therapy offers challenge, opportunity, and special rewards to those interested in working with people. Children and adults who require therapy because of behavioral, psychological, and/or physical disorders are helped through the use of music. The skills of the music therapist are needed in a variety of places, including mental hospitals,geriatric centers, day care facilities, community health centers, and substance abuse agencies. Graduates are eligible to apply for registration as a music therapist (R.M.T.) through the National Association for Music Therapy, of which the department is a member.

The Bachelor of Music with Elective Studies in Business is a program designed for students who want to prepare for careers in the music industry including music retailing, publishing, entertainment, and arts promotion. An intern program provides the student with field experiences prior to graduation.

The Bachelor of Music in Music Performance is available in piano, organ, guitar, voice, percussion, and any standard string, brass, and woodwind instrument.

The Bachelor of Arts in Music is designed for students with a strong interest and ability in music but who do not have immediate vocational goals.

The Music Department offers a Music Minor for students in other majors with appropriate interest and aptitude to obtain a minor in music.

The Master of Music in Music Education is designed particularly for teachers of music. Students without public school certification may wish to meet these requirements while pursuing the M.M. degree simultaneously.

COURSE REQUIREMENTS

MUSIC EDUCATION MAJOR: 133 s.h.

92 s.h. in music: MU 141, 211, 212, 221, 222, 250, 311, 312, 315, 317, 318, 321, 322, 341, 342, 343 or 344, 350 or 351, 400, 14 s.h. in major performance, 11 in secondary area, 7 s.h. in large ensembles, 2 s.h. in small ensemble, professional courses in related areas include History & Philosophy of Education, Educational Psychology, and Special Education courses

MUSIC THERAPY MAJOR: 133 s.h.

89 s.h. in music: MU 211, 212, 221, 222, 250, 311, 312, 315, 317, 318, 321, 322; MTH 171, , 210, 211, 352, 372, 410, 411, 471, 472, 475; 11 s.h. in major perfor-

mance, 9 in secondary area, 4 s.h. in large ensembles; courses in related areas include BIO 103, PSY 202, 250, 291, SOC 307 or 308, SPE 101.

ELECTIVE STUDIES IN BUSINESS: 133 s.h.
39 s.h. in general education, 21 s.h. in business core, 73 s.h. in music: MU 211, 212, 221, 222, 311, 312, 321, 322, 7 s.h. in major performance area, 7 s.h. in secondary area, 7 s.h. in ensembles, 12 s.h. in internship

PERFORMANCE MAJOR: 128 s.h.
88 s.h. in music: MU 211, 212, 221, 222, 250, 311, 312, 321, 322, 350 or 351; vocal (351, 352, 420, 471); keyboard (323, 472, 473); instrumental (475, 476, or 477); 28 s.h. in major performance, 8 s.h. in secondary area, 8 s.h. in large ensembles, 4 s.h. in small ensembles, 6 s.h. in music electives

B.A. IN MUSIC: 128 s.h.
42 s.h. in music: MU 211, 212, 221, 222, 311, 312, 321, 322, eight semesters of major performance, two secondary, and two ensemble; 6 s.h. of music electives.

MUSIC MINOR
24 s.h. in music: MU 211, 212, 221, 222, 4 s.h. in major performace area, 2 s.h. in large ensemble.

MASTER OF MUSIC IN MUSIC EDUCATION: 31-34 s.h.
MU 500, 540, 545, 550 or 551; 4 s.h. in major performance area, 15 s.h. electives (3 history, 3 theory, 3 history or theory)

COURSE DESCRIPTIONS

MAP 101: 1 s.h.
Voice Class I
Develops proper vocal production, poise, and confidence in solo singing. Remedial work for individual problems.

MAP 102: 1 s.h.
Voice Class II
Continuation of MAP 101. Prereq: MAP 101.

MAP 103: 1 s.h.
Advanced Voice Class
Instruction in voice will be given on a level beyond MAP 101 and 102. Goals of the course are to improve technique, quality, and artistry of individual voices; and to focus class attention on common vocal problems and their remediation.

MAP 111: 1 s.h.
Introduction to the Piano
Designed to give non-music majors with no previous keyboard experience an opportunity to learn the very basics of piano playing.

MAP 112: 1 s.h.
Beginning Piano Class
Remedial piano study for those unable to meet entrance requirements.

MAP 113: 1 s.h.
Class Piano I
For the student with limited piano skill. Prereq: ability to perform with reasonable fluency at least five pieces from the last pages of any standard first grade instruction book (such as Thompson, Schaum, Fletcher, Kasschau, et al.), and to play at sight pieces from the first half of a similar book.

MAP 114: 1 s.h.
Class Piano II
Designed for the music major who might reach the level of skill required by the first proficiency examination. May be taken for a total of three credits. Prereq: MAP 113.

MAP 115: 1 s.h.
Advanced Piano Class
Designed for the music education vocal concentration major. Development of advancing piano skills to reach the level of the Third Proficiency. Prereq: Passing of the First Proficiency Examination or audition.

MAP 131: 1 s.h.
Woodwind Class I
Studies the fundamental principles and techniques necessary for playing and teaching the flute and clarinet; study of the literature appropriate for beginning class instruction.

MAP 132: 1 s.h.
Woodwind Class II
Studies the fundamental principles and techniques necessary for playing and teaching the saxophone, oboe, and bassoon; study of the literature appropriate for beginning class instruction.

MAP 133: 1 s.h.
Advanced Woodwind Class
Instruction in woodwind instruments on a level beyond that of the beginning courses. Introduces more scales, more advanced work with embouchure, tone, tonguing. Suitable literature for the various instruments.

MAP 141: 1 s.h.
Brass Class I
Studies the fundamental principles and techniques necessary for playing and teaching the trumpet and horn; study of the literature appropriate for beginning class instruction.

MAP 142: 1 s.h.
Brass Class II
Studies the fundamental principles and techniques necessary for playing and teaching the trombone, euphonium, and tuba; study of the literature appropriate for beginning class instruction.

MAP 143: 1 s.h.
Advanced Brass Class
Instruction in brass instruments on a level beyond that of the beginning courses. Scales in various articulations and ranges, more advanced technical work and styles, suitable literature for the various instruments.

MAP 151: 1 s.h.
String Class I
Acquaints the non-string player with the basic elements of string instrument playing. Instruction in various instruments, fundamentals of correct playing, and familiarity with problems of class instruction in typical elementary school string classes.

MAP 152: 1 s.h.
String Class II
Continuation of 151. Students specialize on violin, viola, cello, or bass. Presents keys up to four sharps and two flats with corresponding fingering problems. Introduces bass players to various positions, and cello players to extended second finger pattern. Introduces various staccato bowing patterns. Violin and viola students practice simple third position exercises. Principles of vibrato presented.

MAP 153: 1 s.h.
Advanced String Class
Instruction in stringed instruments on a level beyond that of the beginning courses. Introduces scales in various positions, more advanced work with the various staccato and spiccato bowings. Suitable literature for the various instruments.

MAP 157: 1 s.h.
Guitar Class I
Beginning study of the guitar. Functional use of the guitar in the music classroom. Accompanying singing.

MAP 158: 1 s.h.
Guitar Class II
Continuation of 157. More advanced work in techniques and corresponding literature.

MAP 161: 1 s.h.
Percussion Class
Studies the characteristics for the various percussion instruments; performance techniques: development of performing ability necessary to teach the percussion instruments at the elementary and secondary level of instruction.

MAP 163: 1 s.h.
Advanced Percussion Class
Instruction in percussion instruments on a level beyond that of the beginning course. Introduces more advanced work with the various percussion instruments. Suitable literature for various instruments.

MAP 200: 1 s.h.
Voice Secondary
1/2 hour lesson

MAP 210: 1 s.h.
Piano Secondary
1/2 hour lesson

MAP 220: 1 s.h.
Organ Secondary
1/2 hour lesson

MAP 225: 1 s.h.
Harpsichord Secondary
1/2 hour lesson

MAP 230: 1 s.h.
Flute Secondary
1/2 hour lesson

MAP 231: 1 s.h.
Oboe Secondary
1/2 hour lesson

MAP 232: 1 s.h.
Clarinet Secondary
1/2 hour lesson

MAP 233: 1 s.h.
Bassoon Secondary
1/2 hour lesson.

MAP 234: 1 s.h.
Saxaphone Secondary
1/2 hour lesson

MAP 240: 1 s.h.
Trumpet Secondary
1/2 hour lesson

MAP 241: 1 s.h.
Horn Secondary
1/2 hour lesson

MAP 242: 1 s.h.
Trombone Secondary
1/2 hour lesson

MAP 243: 1 s.h.
Euphonium Secondary
1/2 hour lesson

MAP 244: 1 s.h.
Tuba Secondary
1/2 hour lesson

MAP 250: 1 s.h.
Violin Secondary
1/2 hour lesson

MAP 251: 1 s.h.
Viola Secondary
1/2 hour lesson

MAP 252: 1 s.h.
Cello Secondary
1/2 hour lesson

MAP 253: 1 s.h.
Brass Secondary
1/2 hour lesson

MAP 254: 1 s.h.
Harp Secondary
1/2 hour lesson

MAP 257: 1 s.h.
Guitar Secondary
1/2 hour lesson

MAP 260: 1 s.h.
Percussion Secondary
1/2 hour lesson

MAP 300: 1-2 s.h.
Voice
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 310: 1-2 s.h.
Piano
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 320: 1-2 s.h.
Organ
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 325: 1-2 s.h.
Harpsichord
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 330: 1-2 s.h.
Flute
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 331: 1-2 s.h.
Oboe
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 332: 1-2 s.h.
Clarinet
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 333: 1-2 s.h.
Bassoon
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 334: 1-2 s.h.
Saxophone
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 340: 1-2 s.h.
Trumpet
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 341: 1-2 s.h.
Horn
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 342: 1-2 s.h.
Trombone
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 343: 1-2 s.h.
Euphonium
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 344: 1-2 s.h.
Tuba
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 350: 1-2 s.h.
Violin
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 351: 1-2 s.h.
Viola
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 352: 1-2 s.h.
Cello
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 353: 1-2 s.h.
Bass
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 357: 1-2 s.h.
Guitar
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 360: 1-2 s.h.
Percussion
1/2 hour lesson. Can be taken for 1 or 2 credits.

MAP 400: 1-4 s.h.
Voice
1 hour lesson. Can be taken for one, two or four credits.

MAP 410: 1-4 s.h.
Piano
1 hour lesson. Can be taken for one, two or four credits.

MAP 420: 1-4 s.h.
Organ
1 hour lesson. Can be taken for one, two or four credits.

MAP 425: 1-4 s.h.
Harpsichord
1 hour lesson. Can be taken for one, two or four credits.

MAP 430: 1-4 s.h.
Flute
1 hour lesson. Can be taken for one, two or four credits.

MAP 431: 1-4 s.h.
Oboe
1 hour lesson. Can be taken for one, two or four credits.

MAP 432: 1-4 s.h
Clarinet
1 hour lesson. Can be taken for one, two or four credits.

MAP 433: 1-4 s.h.
Bassoon
1 hour lesson. Can be taken for one, two or four credits.

MAP 434: 1-4 s.h.
Saxophone
1 hour lesson. Can be taken for one, two or four credits.

MAP 440: 1-4 s.h.
Trumpet
1 hour lesson. Can be taken for one, two or four credits.

MAP 441: 1-4 s.h.
Horn
1 hour lesson. Can be taken for one, two or four credits.

MAP 442: 1-4 s.h.
Trombone
1 hour lesson. Can be taken for one, two or four credits.

MAP 443: 1-4 s.h.
Euphonium
1 hour lesson. Can be taken for one, two or four credits.

MAP 444: 1-4 s.h.
Tuba
1 hour lesson. Can be taken for one, two or four credits.

MAP 450: 1-4 s.h.
Violin
1 hour lesson. Can be taken for one, two or four credits.

MAP 451: 1-4 s.h.
Viola
1 hour lesson. Can be taken for one, two or four credits.

MAP 452: 1-4 s.h.
Cello
1 hour lesson. Can be taken for one, two or four credits.

MAP 453: 1-4 s.h
Bass
1 hour lesson. Can be taken for one, two or four credits.

MAP 457: 1-4 s.h.
Guitar
1 hour lesson. Can be taken for one, two or four credits.

MAP 460: 1-4 s.h.
Percussion
1 hour lesson. Can be taken for one, two or four credits.

MEN 000: 0 s.h.
Recital Attendance
Recital attendance is to be taken for no credit.

MEN 100: 0-1 s.h.
Concert Choir
A highly select choir of forty-eight voices. Presents a concert each semester and joins with the other choruses for choral festivals. The choir is a touring ensemble. May be taken for 0 or 1 credit.

MEN 101: 0-1 s.h.
Festival Chorus
A large mixed chorus providing opportunity to experience great choral literature. Presents a concert each semester and joins other choruses for choral festivals. May be taken for 0 or 1 credit.

MEN 102: 0-1 s.h.
Opera Workshop
Study and performance of operatic and musical comedy scenes chosen according to the abilities of the students in the workshop. Full-scale musical comedy productions done in conjunction with the department of speech, communications, and theatre. Under supervision, students perform in, musically direct, coach, accompany, conduct, and stage-direct various scenes. May be taken for 0 or 1 credit.

MEN 103: 0-1 s.h.
Mansfieldians
A vocal jazz/madrigal ensemble. Specializes in singing jazz, madrigal, and folk music. Available for performance in public schools, service agencies, and alumni functions. Audition required. May be taken for 0 or 1 credit.

MEN 104: 0-1 s.h.
Chamber Singer
A vocal chamber ensemble. Specializes in repertoire of the vocal chamber medium. Concerts are given at the University and off-campus by request. Audition required. May be taken for 0 or 1 credit.

MEN 105: 0-1 s.h.
Vocal Ensemble
Studies and performs representative works for various vocal combinations. May be taken for 0 or 1 credit.

MEN 110: 0-1 s.h.
Piano Ensemble
Study and performance of two-piano and four-hand literature, chamber music, sonatas and trios. Accompaniment of standard instrumental and vocal literature. May be taken for 0 or 1 credit.

MEN 130: 0-1 s.h.
Concert Wind Ensemble
A highly select concert band of forty-eight woodwind, brass, and percussion players. In addition to presenting concerts on campus, the Wind Ensemble is a touring ensemble. Audition required. May be taken for 0 or 1 credit.

MEN 131: 0-1 s.h.
Mountie Marching Band
(fall semester only). Performs at all home football games and hosts the Mansfield University band day. Performs at out-of-town football games, as well as periodic appearances at professional games, special functions, and international events. May be taken for 0 or 1 credit.

MEN 132: 0-1 s.h.
Symphonic Band
(spring semester only). Studies a wide variety of band literature and presents concerts on campus. May be taken for 0 or 1 credit.

MEN 133: 0-1 s.h.
Woodwind Ensemble
Study and performance of representative works for various woodwind ensembles. One woodwind quintet and one sax quintet take an annual tour. May be taken for 0 or 1 credit.

MEN 134: 0-1 s.h.
Brass Ensemble
Study and performance of representative works for various combinations of brass instruments. May be taken for 0 or 1 credit.

MEN 135: 0-1 s.h.
Concert Jazz Band
Performs several times each year on campus as well as touring and performing concerts off-campus. Membership by audition. May be taken for 0 or 1 credit.

MEN 136: 0-1 s.h.
Small Jazz and Commercial Ensembles
Provides opportunity forstudents to gain supervised experience in performing jazz and other current professional music idioms in small groups. May be taken for 0 or 1 credit.

MEN 150: 0-1 s.h.
Orchestra
College-Community Symphony. Provides an opportunity to participate in the performance of standard symphonic literature. The orchestra presents a concert each semester,

accompanies outstanding student soloists, participates in the biennial choral festival. The choir is a touring ensemble. May be taken for 0 or 1 credit.

MEN 151: 0-1 s.h.
String Ensemble
Study and performance of standard literature for string ensembles. May be taken for 0 or 1 credit.

MEN 157: 0-1 s.h.
Guitar Ensemble
Introduction of the technique and repertoire of guitar ensemble music and ensemble performance skills. May be taken for 0 or 1 credit.

MEN 160: 0-1 s.h.
Percussion Ensemble
Study and performance of representative works for all combinations of percussion instruments. May be taken for 0 or 1 credit.

MEN 300: 0-1 s.h.
Concert Choir
A highly select choir of forty-eight voices which presents a concert each semester and joins with the other choruses for choral festivals. The choir is a touring ensemble. May be taken for 0 or 1 credit.

MEN 301: 0-1 s.h.
Festival Chorus
A large mixed chorus providing opportunity to experience great choral literature. Students present a concert each semester and join other choruses for choral festivals. May be taken for 0 or 1 credit.

MEN 302: 0-1 s.h.
Opera Workshop
The study and performance of operatic and musical comedy scenes chosen according to the abilities of the students in the workshop. Full-scale musical comedy productions are done in conjunction with the department of speech, communications and theatre. Under supervision, students perform in, musically direct, coach, accompany, conduct, and stage-direct various scenes. May be taken for 0 or 1 credit.

MEN 303: 0-1 s.h.
Mansfieldians
A vocal jazz/madrigal ensemble which specializes in singing jazz, madrigal, and folk music. This group is available for performance in public schools, service agencies, and alumni functions. Audition required. May be taken for 0 or 1 credit.

MEN 304: 0-1 s.h.
Chamber Singers
A vocal chamber ensemble which specializes in repertoire of the vocal chamber medium. Concerts are presented at the University and off-campus by request. Audition required. May be taken for 0 or 1 credit.

MEN 305:0-1 s.h.
Vocal Ensemble
Studies and performs representative works for various vocal combinations. May be taken for 0 or 1 credit.

MEN 310: 0-1 s.h.
Piano Ensemble
Studies and performs two-piano and four-hand literature, chamber music, sonatas, and trios, including accompaniment of standard instrumental and vocal literature. May be taken for 0 or 1 credit.

MEN 330: 0-1 s.h.
Concert Woodwind Ensemble
A highly select concert band of forty- eight woodwind, brass, and percussion players. In addition to presenting concerts on campus, the wind ensemble is a touring ensemble. Audition required. May be taken for 0 or 1 credit.

MEN 331: 0-1 s.h.
Mountie Marching Band
Performs at all home and out-of-town football games and hosts the Mansfield University band day, as well as, periodic appearances at professional games, special functions, and international events. May be taken for 0 or 1 credit.

MEN 332: 0-1 s.h.
Symphonic Band
Studies a wide variety of band literature and presents concerts on campus. May be taken for 0 or 1 credit.

MEN 333: 0-1 s.h.
Woodwind Ensemble
Study and performance of representative works for various woodwind ensembles. One woodwind quintet and one sax quintet take an annual tour. May be taken for 0 or 1 credit.

MEN 334: 0-1 s.h.
Brass Ensemble
Study and performance of representative works for various combinations of brass instruments. May be taken for 0 or 1 credit.

MEN 335: 0-1 s.h.
Concert Jazz Band
Performs on-campus several times each year, as well as, touring and performing concerts off-campus. Membership by audition. May be taken for 0 or 1 credit.

MEN 336: 0-1 s.h.
Small Jazz and Commercial Ensembles
Provides the opportunity for students to gain supervised experience in performing jazz and other current professional music idioms in small groups. May be taken for 0 or 1 credit. Dual listed with 536.

MEN 350: 0-1 s.h.
Orchestra
The College-Community Symphony provides an opportunity to participate in the performance of standard symphonic literature. Our orchestra presents a concert each semester, accompanies outstanding student soloists, participates in the biennial choral festival, and is a touring ensemble. May be taken for 0 or 1 credit.

MEN 351: 0-1 s.h.
String Ensemble
Study and performance of standard literature for string ensembles. May be taken for 0 or 1 credit.

MEN 357: 0-1 s.h.
Guitar Ensemble
Introduction to the technique and repertoire of guitar ensemble music and ensemble performance skills. May be taken for 0 or 1 credit.

MEN 360: 0-1 s.h.
Percussion Ensemble
Study and performance of representative works for all combinations of percussion instruments. May be taken for 0 or 1 credit.

MTH 171: 3 s.h.
Therapy Orientation
Studies the nature of music therapy and the therapeutic process. Students will gain a better understanding of the clients served and the types of treatment available.

MTH 210: 1 s.h.
Clinical Integration I
Students will participate in weekly laboratory experiences on campus and in a clinical setting. Written assignments and a workshop experience are required. Prereq: MAP 157, MTH 171, and SPE 101.

MTH 211: 1 s.h.
Clinical Integration II
Students will participate in weekly lecture/discussion sessions and clinical experiences. Written assignments and a workshop experience are required.

MTH 211L: 1 s.h.
Clinical Orientation Laboratory
Prereq: MTH 171.

MTH 372: 3 s.h.
Psycho-Social Foundations of Music
Studies the functions of music in society and the psychological attributes of music. Students gain a better understanding of the effects and properties of human life. A paper and an oral report are required.

MTH 410: 1-4 s.h.
Advanced Clinical Integration I
Provides preparation for advanced clinical work with a wide range of client populations. Provides relevant academic preparation and opportunities to develop clinical skills and to deepen personal awareness. A workshop experience is required. May be taken for one or two credits, but no more than four credits. Prereq: MTH 171, 210,. 211, and 211L.

MTH 411: 1-4 s.h.
Advanced Clinical Integration II
Provides preparation for advanced clinical work with a wide range of client populations. Provides relevant academic preparation and opportunities to develop clinical skills and to deepen personal awareness. A workshop experience is required. May be taken for one or two credits not to exceed four credits. Prereq: MTH 171, 210, 211, and 211L.

MTH 471: 3 s.h.
Influence of Music on Behavior
A survey of research in music therapy with a focus on ways music can be employed in the therapeutic process to change problem behaviors. A paper is required.

MTH 472: 3 s.h.
Music in Therapy
Studies the relationships of music therapy to institutional organization and administration, as well as, other therapeutic disciplines. A project/paper is required.

MTH 475: 2 s.h.
Internship
A practical application of theories of uses of music in therapeutic settings. Choices such as a hospital, state school, correctional facility, public school, special education, and private school may be available.

MU 101: 3 s.h.
Introduction to Music
Studies principal vocal and instrumental forms and media. Surveys important compositions from the early Baroque to the present.

MU 102: 3 s.h.
Fundamentals of Music
The fundamentals of music theory (melody, rhythm, harmony, form, and tembre) are introduced in a "hands-on" practical manner. Activities include analysis of music examples, composition, guided listening, performing, and keyboard theory lab. Music fundamentals will be approached from the standpoints of the listener, the performer, and the composer.

MU 141: 1 s.h.
Introduction to Music Education
Provides an overview of music education and an acquaintance with the process of teaching and learning music in the elementary and secondary schools.

MU 201: 3 s.h.
Introduction to Jazz
Studies the evolutionary history of jazz from the earliest African and European influences to the present. Emphasizes listening experiences and develops an awareness of the unique role of jazz in American culture.

MU 211: 3 s.h.
Basic Music I
Development of vocabulary; study of modes, scales, harmonic rhythmic, and composition techniques. Supportive examples selected from all periods of music. Sight singing an dictation.

MU 212: 3 s.h.
Basic Music II
Continuation of 211. Analysis and creative projects involving Baroque practices of figured bass, functional harmony, modulation, and altered chords. Prereq: MU 211

MU 221: 2-3 s.h.
Classic and Romantic Music
Surveys Western European musical literature and musical styles of the Classic and Romantic Eras. May be taken for 2 or 3 credits only.

MU 222: 2-3 s.h.
Post Romantic and 20th Century Music
Surveys Western European and American musical literature and musical styles beginning with the Post-Romantic Era through main currents of 20th-century composition. May be taken for 2 or 3 credits only. Prerequisite: MU 221 or permission of instructor.

MU 250: 1 s.h
Basic Conducting
Beginning conducting techniques for choral and instrumental majors.

MU 261: 2 s.h.
Fundamentals of Jazz Improvisation I
Studies the materials, styles, and techniques of creative and spontaneous jazz performance.

MU 262: 2 s.h.
Fundamentals of Jazz Improvisation II
Continuation of 261.

MU 263: 3 s.h.
Jazz Styles and Analysis
In-depth examination and analysis of the stylistic features of the important performers and periods of jazz. Ability to read music required.

MU 301: 3 s.h.
World Music
Music of various continents is explored with particular emphasis on each tradition's cultural function. Provides the fundamental research and comparative skills needed to understand and listen to selected non-western music. Includes discussions of how Western art and popular music incorporate these styles.

MU 302: 3 s.h.
Introduction to Oriental Music
No course description.

MU 311: 3 s.h.
Basic Music III
Studies more elaborate harmonic and formal structures. Examines macro-micro elements in relation to performance practices. Creative and analytic projects based on fugal style, rondo and sonata form, and the art song. Prereq: MU 212.

MU 312: 3 s.h.
Basic Music IV
Examines contemporary techniques. Examples selected from Debussy to post-1950. Creative projects involving the whole tones and twelve-tone scales, and aleatoric and electronic compositions. Sight singing and dictation to include atonal pitch sets. Prereq: MU 311.

MU 315: 3 s.h.
Orchestration
Designed to provide the basic skills of notation, parts extraction, transposing and arranging, in addition to information on instrumental ranges, qualities, and usages. Strings, woodwinds, and brass are treated as distinct families. Provides a fluent understanding of skills and concepts, and as a by-product, the student will become more aware of score reading and audio awareness. Good manuscript habits will make it possible for musicians to read new music and students will be able to use these skills in graduate school. Prereq: MU 312 or permission of instructor.

MU 317: 1 s.h.
Keyboard Skills I
Intensive work in accompanying melodies in major and minor keys, with beginning work in modal harmony. Development of varied accompanimental styles, improvisation, command of functional harmony, "playing by ear," transposition, sight reading melodies from elementary music, and harmonizing these melodies at sight. Prereq: MU 212.

MU 318: 1 s.h.
Keyboard Skills II
Continuation of 317. More complex accompanimental styles, secondary dominant chords, improvisation, transposition, "playing by ear," modulatory techniques, sight reading from junior high music series, sight reading melodies and supplying appropriate accompaniment. Prereq: MU 317 or equivalent.

MU 321: 2 s.h.
Medieval and Renaissance Music
Surveys Western European musical literature and musical styles beginning with the early Christian era through the Renaissance. May be taken for 2 or 3 credits only. Prereq: MU 221 or permission of instructor.

MU 322: 2 s.h.
Baroque and Pre-Classical Music
Surveys Western European musical literature and musical styles of the Baroque and Pre-classical Eras. May be taken for 2 or 3 credits only. Prereq: MU 221 or permission of instructor.

MU 323: 2 s.h.
Piano Literature I
Detailed study of the literature of the piano from the keyboard works of the late Renaissance through the piano works of the 18th century.

MU 324: 2 s.h.
Piano Literature II
Detailed study of the literature of the piano from the 19th century to the present day.

MU 340: 3 s.h.
Teaching Music
Designed to enable elementary education majors to integrate the teaching of music into the mainstream of the elementary school curriculum. Fundamentals of music, musical characteristics of children, concept development, and musical activities appropriate for the age group will be stressed. Includes observation/participation in the local elementary school.

MU 341: 2 s.h.
Music in the Elementary School
Studies the developmental and musical characteristics of children ages 5-11. Emphasizes teaching the elements of music through musical activities appropriate for this age group. Includes a survey of current materials as well as observation/participation in the local elementary school. Particular attention is given to curricular development for vocal and general music classes. Prereq: MU 141, 212 and five hours of pre-professional experience.

MU 342: 2 s.h.
Music in the Secondary School
Studies the developmental and musical characteristics of students ages 12-18. Emphasizes teaching the elements of music through musical experiences appropriate for this age group. Includes a survey of current materials as well as observation/participation in the local secondary school. Particular attention is given to classroom management, students with exceptionalities of all ages, curriculum development in general music classes, elective classes, and an overall philosophy of music education. Prereq: MU 341 and five hours of pre-professional experience.

MU 343: 2 s.h.
Instrumental Music in Public School
Study of a suitable instrumental program for a public school system. Particular attention to class teaching techniques of the various instruments. Problems of organization and administration of such a program; survey and examination of the available instructional material. Prereq: MU 141, 212, 342 and five hours pre-professional experience.

MU 344: 2 s.h.
Vocal-Choral Music in the Public Schools
Study of a suitable choral program for a public school system. Particular attention is given to the teaching of voice through the developmental stages of elementary, middle, and high school students. Experience in working with the age group is an important part of the course. Prereq: MU 112, 141, 342, 350, and five hours pre-professional experience.

MU 350: 2 s.h.
Choral Conducting
Prepares the future music educator to organize, teach, and conduct choral organizations of varying levels of achievement, particularly junior and senior high school age groups. Experience in conducting the class as a chorus is integral to the course. Prerequisite: MU 212.

MU 351: 2 s.h.
Instrumental Conducting
Prepares for conducting instrumental groups. Emphasis on communicative and control techniques of conducting and rehearsal and performance techniques. Experience through conducting a laboratory band and orchestra. Videotaping is utilized extensively with each individual. Prereq: MU 212.

MU 361: 2 s.h.
Jazz Arranging I
Studies techniques in arranging for modern jazz ensembles of all sizes.

MU 362: 2 s.h.
Jazz Arranging II
A more advanced course in the styles and techniques of arranging for modern jazz ensembles of all sizes.

MU 363: 2 s.h.
Jazz Ensemble Materials and Techniques
Acquaints prospective directors of secondary school performing jazz ensembles with materials and techniques appropriate to the idiom. Highly useful to students interested in amateur or professional jazz ensemble performance outside of educational institutions. Dual listed with 563.

MU 400: 12 s.h.
Student Teaching
(By arrangement) Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor. Prereq: 2.5 QPA.

MU 410: 3 s.h.
Forms and Analysis
Various methods of musical analysis are studied and applied to compositions representative of various periods of music history. Prereq: MU 312.

MU 411: 3 s.h.
Counterpoint
Studies the contrapuntal style of the late 17th and early 18th centuries. Prereq: MU 312.

MU 412: 3 s.h.
Advanced Harmony
Harmonic techniques of the late nineteenth and early twentieth centuries; interrelationships of harmonic vocabulary and musical form. Prereq: MU 312

MU 417: 3 s.h.
Composition
Contemporary techniques of musical composition; emphasis on creative work. Prereq: MU 312 or permission of instructor.

MU 418: 3 s.h.
Advanced Composition
Continuation of 417. For students interested in more intensive work than can be provided in 417.

MU 420: 3 s.h.
Song Literature
Studies development of monophonic song from the days of the troubadours and trouvers to the present time. Emphasizes especially the history of the German lied, the French chan-

son or melody, and solo song in the British Isles and the United States. Also includes the major composers of song in the Slavic countries, Spain, South America, and Scandinavia.

MU 427: 3 s.h.
Contemporary Music
Surveys the styles, forms, and musical techniques of contemporary music.

MU 428: 3 s.h.
American Music
Historical background and development of music in the United States from colonial times to the present. Studies the principal composers and their music. Reading, research, and listening emphasized.

MU 429: 3 s.h.
Advanced Studies Music Literature
Intensive study of selected choral, solo, chamber, and orchestral masterpieces: emphasis on formal and stylistic developments. Prereq: MU 221, 222, 321, and 322.

MU 431: 3 s.h.
The Symphony
Studies orchestral music from its beginning. The Mannheim composers, the Viennese classics, the Romanticists, and contemporary composers. Works will be analyzed and their historical, cultural, and philosophical backgrounds discussed.

MU 432: 3 s.h.
The Concerto
Emphasizes the development of the concerto and the stylistic contributions of the great masters. Representative works will be studied in score and recordings.

MU 452: 3 s.h.
Diction for Singers
Systematically approaches pronunciation in solo and choral literature in English, Italian and Latin, French and German. The International Phonetic Alphabet will be used with emphasis on those elements of pronunciation which require modification from spoken to singing language. Includes listening, class performance, and teaching experiences.

MU 458: 2 s.h.
Basic Woodwind Repair
Designed to give the student the knowledge and skills needed to repair the majority of problems encountered on woodwind instruments.

MU 459: 2 s.h.
Marching Band Techniques
Detailed study of the marching band including philosophy, styles, charting, music, materials, instrumentation, administration, and contemporary techniques.

MU 471: 2 s.h.
Vocal Pedagogy
A study of the teaching of singing on an individual or group basis. Study of the five elements of singing: respiration, phonation, resonation, articulation, and interpretation. An examination of various approaches to voice teaching, including a study of books on voice pedagogy. May be taken for 2 or 3 credits only. Preq: permission of instructor. Dual listed with 571.

MU 472: 2 s.h.
Piano Pedagogy
Studies procedures for class and individual instruction: emphasizes the ear approach as the basis for reading, true musical perception and intelligent understanding of the printed page. Examines and evaluates materials suitable for the first years of piano study. Prereq: permission of instructor.

MU 473: 1 s.h.
Practicum in Piano Teaching
Introduces class and individual instruction techniques to be used with young beginners. Prereq: MU 472.

MU 475: 3 s.h.
Woodwind Pedagogy
Acquaints students with the woodwind instruments and their solo and ensemble literature. Lecture, demonstration, films, tapes, and recordings presented for flute, oboe, bassoon, clarinet, and saxophone.

MU 476: 3 s.h.
Brass Pedagogy
Studies the techniques, teaching problems, teaching materials, history, and literature related to the brass instruments.

MU 477: 3 s.h.
Percussion Pedagogy
Studies teaching techniques and associated literature of the various percussion instruments.

MU 481: 3 s.h.
Survey of the Business of Music
Presents an overall view of music merchandising, describes the various types of retailing, and acquaints the student with the administration, advertising, marketing processes, and consumer orientation necessary for the education of a person in the retail-wholesale aspects of the music industry.

MU 482: 1 s.h.
Music Business Management Seminar
A study of the problems and expectations unique to Music Business Management.

MU 483: 1 s.h.
Music Marketing and Promotion Seminar
Gives insight and detailed analysis of marketing and promotion for music stores and music associated organizations.

MU 484: 1 s.h.
Music Business Financial Planning & Control Seminar
Explores methods for financial planning and control including internal control and store security, payroll records and worker's compensation payroll audits, and a case study of financial reporting and management planning.

MU 489: 12 s.h.
Internship: Music Merchandising
Provides experiences in the following: (a) a "hands-on experience", (b) an opportunity to observe professionals in the field, (c) a broadening and understanding of problems and careers in the field, (d) an educationally directed field instruction, (e) an opportunity to apply knowledge, theory, and understanding in a job situation, and (f) an opportunity to develop marketable skills.

MU 497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

PHILOSOPHY

Professors Bickham, chairperson
Professors Newman, Young
Associate Professor, Timko

Philosophy courses are open to all students, and Philosophy offers courses in the Humanities area of General Education. Philosophy courses provide students the opportunity to discuss important questions of life in an adult manner. Philosophy is concerned with such issues as the meaning of life, whether we are really free, the nature of the self, how we can determine what is morally right and wrong, proper reasoning (Logic), whether there is a God, the nature of religion, science, and art.

A Philosophy major provides an excellent grounding in the fundamental ideas and concepts of our culture. It thus explains a great deal of why we are the way we are and do the things we do. Students are introduced to major philosophers such as Plato, Aristotle, Descartes, and Hume. The Philosophy major is appropriate for those wishing to pursue advanced degrees in Philosophy. It is also excellent training for any profession requiring skill in analytic reasoning, writing, and argumentation. (The Philosophy Department advises pre-law students at Mansfield.) There is sufficient flexibility in the Philosophy major to allow students to combine Philosophy as a double major with any other B.A. or B.S. program.

COURSE REQUIREMENTS

Philosophy Major (B.A.): 128 s.h.

The Philosophy major requires thirty three hours in Philosophy.Required courses, usually taken in the third and fourth years,include PHL 420, PHL 422, and PHL 490. In addition, students musttake three other courses (nine s.h.) at the upper division level.Also, the B.A. Philosophy major requires either an academic minoror competency through the fourth semester in a foreign language.

Philosophy Major (B.S.): 128 s.h.

This is a special degree program to be utilized only by students combining Philosophy as a dual major with another B.S. program.The course requirements are the same as the B.A. degree. No minoror foreign language competency is required. To earn this degree,the student must complete at least thirty-three s.h. in anotherof the university's B.S. programs.

Philosophy Minor

Fifteen semester hours in Philosophy are required, with at least six of these being at the upper division level.

Canadian Studies

Canadian Studies Minor

The formal study of Canada is a critical element in the education of the next generation of leaders, providing a significant, accessible avenue for understanding global interdependence and multicultural environments. Moreover, with Canada and the United states as each other's largest trading partner, learning about Canada as a foreign market makes increasingly good economic sense, especially as the North America Free Trade Agreement (NAFTA) becomes fully implemented and international job mobility increases.

The Canadian Studies Minor provides the student with a multidisciplinary approach to understanding the history, literature, economics, politics, business, fine arts, educational systems, and the physical and cultural environments of our northern neighbor. Building on the theoretical and practical content of the core course, the student selects courses from across the curriculum wherever Canadian content or perspectives are designated.

Requirements

The minor (18 s.h.) consists of the core course, a seminar or internship, two directed electives, and two free electives. The core course, Introduction to Canada, counts as Group I General Education Distribution requirement, whether or not the student completes the minor. One of the directed electives must be from arts, humanities, or languages; the other from social science or professional studies. The two free electives may be chosen in consultation with the Director of Canadian Studies from among designated courses. The significant culminating requirement of the minor is either an in-depth seminar on a Canadian topic or an internship with a business or agency with Canadian interests.

General Studies

General Studies Major (B.A.): 128 s.h.

This major allows students to combine course offerings from across the university to construct for themselves a custom program in a specialty in which the university does not grant a degree. Thus students could combine in Business, Communication, Art, and Journalism to construct a concentration in Advertising; or Anthropology, History and Art History for Museum Studies. The program fosters creativity among students in putting together these combinations.

Students in General Studies fulfill the university's General Education program and either take an academic minor or achieve second year proficiency in a foreign language. There are no specific course requirements for General Studies. The structural heart of the program is the twenty-one hour rule. This rule holds that **for a General Studies student no more than 21 semester hours in any individual prefix area can be counted towards the number of hours needed for graduation (128).** (Note that BUS, MUS, ART, ED, and ELE are each separate course prefix areas.) The twenty-one hour rule ensures that General Studies will be used as a combined major, and it is strictly enforced.

General Studies students may design an official academic concentration for themselves. This involves the student's submitting a sequence of courses to be taken to a faculty committee chosen by the General Studies Advisor. If the course sequence is approved by the faculty committee and the Provost, and completed by the student, a notification of the academic concentration will be made on the student's official transcript.

(SPECIAL NOTE—At the time of construction of this catalog consideration was being given to changing the maximum number of credits in a prefix area from twenty-one to twenty-four. Students should consult the General Studies advisor.)

The Philosophy Department houses the General Studies program. Interested students should contact the chairperson, Dr. Stephen Bickham (717-662-4742), for information.

Liberal Studies

Liberal Studies Minor (A.A.): 61 s.h.

The Associate of Arts in Liberal Studies gives students an opportunity to obtain a two year degree credential in a wide variety of concentrations. The degree is designed for ease of transfer to a Bachelor's level program. It is an excellent choice for students not certain that they wish to make a four year commitment, but who wish to explore college or enrich themselves academically and receive credit for doing so.

To complete the program, a student satisfies the special General Education component of 34-36 credits. The student also selects an area of concentration from one of the departments offering courses in the Humanities, Foreign Languages, or Social Science areas. (See below) The content of this concentration is the same as that of the Bachelor's level minor program, and varies between fifteen and twenty-one semester hours. There are also a small number of free electives in the program, depending on the area of concentration chosen by the student.

Areas of Concentration:
Composed of any Bachelor's level minor program area from any department offering courses in Group I, II, or V of General Education. (The following list may not represent all possibilities.)

CANADIAN STUDIES
CREATIVE WRITING
CULTURAL ANTHROPOLOGY
ECONOMICS
ENGLISH LITERATURE
ETHNIC STUDIES
FRENCH
GEOGRAPHY
GERMAN
HISTORY
INTERNATIONAL STUDIES
PHILOSOPHY
POLITICAL SCIENCE
PSYCHOLOGY
PSYCHOLOGY OF HUMAN DEVELOPMENT
SOCIOLOGY
SPANISH
THEATRE
WOMEN'S STUDIES

COURSE DESCRIPTION

CDN 101: 3 s.h.
Introduction of Canada (G1)
An interdisciplinary course designed to provide students with a comprehensive introduction to Canada, stressing the basics of geography, history, economics, politics, and culture before taking up various contemporary issues, among them constitutional reform, environmental concerns, and the sovereignty of Canada's Native people.

CDN 450: 3-6 s.h.
Internship
Supervised participation in a business or government agency in Ontario or Quebec, or in a business or government agency with Canadian interests. Can be taken for no more than six credit hours. Prereq: CDN 101 and six additional credit hours in Canadian Studies.

CDN 490: 3 s.h.
Selected Topics in Canadian Studies
An in-depth study of an issue or problem in Canadian culture, politics, or business. Prereq: CDN 101 or permission of the instructor.

Philosophy

PHL 191: 3 s.h.
Ethical Issues in Allied Health Care (G1)
Designed for individuals pursing careers in respiratory therapy and radiology technology. Topics include informed consent, paternalism, professional accountability, access to professional services, policy implications and the control of technology, and the benefits of health-care practices. May not be used as a substitute for PHL 380.

PHL 201: 3 s.h.
Introduction to Philosophy (G1)
Examines the basic foundational beliefs of people in the religious, scientific, ethical, and political dimensions of life. Exercises the student's ability to identify his/her own basic beliefs and subject these to critical evaluation. Examples of issues discussed are whether ethical values are relative, the existence of God, the nature of justice, and human freedom.

PHL 202: 3 s.h.
Contemporary Moral Problems (G1
Analyzes arguments pertaining to difficult contemporary issues. Emphasis is on clarifying and evaluating the conclusions of such arguments. Discussion subjects include: abortion, euthanasia, environmental protection, the rights of women and minorities, censorship and pornography, etc. Course goal is to enable the student to assess the strengths and weaknesses of the various positions on each issue.

PHL 230: 3 s.h.
Introduction to Logic (G1)
Studies the basic principles of deductive and inductive thinking. Includes informal as well as formal logic. Syllogistic reasoning and elementary symbolic logic may be introduced. Fallacies in advertising, statistical arguments, political campaigns, and everyday speech are examined.

PHL 280: 3 s.h.
Philosophy of Religion (G1)
Analyzes the validity of various proofs of God's existence. Also examines religious language, the difference between faith and reason, the question of religious authority, and the reasonableness of the religious lifestyle.

Prereq: PHL 201.
PHL 300: 3 s.h.
Philosophy of the Arts (G1)
A detailed survey of both classical and modern aesthetic theories along with a criticism of each. Prereq: PHL 201 or permission of instructor.

PHL 305: 3 s.h.
Philosophy and Film
Aesthetic, ethical and epistemological issues surrounding the moving image. Topics include: realism, neo-realism, the new wave, feminism and the influence of existential and marxist philosophies on cinematic theory. Prereq: PHL 201 or permission of instructor.

PHL 310: 3 s.h.
Social and Political Philosophy
An analysis of philosophical concepts and arguments presupposed in social and political discourse. Topics include liberty and its limits, human rights, economic and social justice, the nature of political obligation and disobedience. Emphasis is on evaluating philosophical theories from both contemporary and historical sources: Prereq: PHL 201 or permission of instructor.

PHL 320: 3 s.h.
Philosophy of Law
An analysis of philosophical concepts and arguments presupposed in legal discourse and reasoning. Topics will include the nature of law and legal decision making; theories of justice, privacy, responsibility and punishment. Emphasis is on examining specific legal cases from both contemporary and historical sources. Prereq: PHL 201 or permission of instructor.

PHL 330: 3 s.h.
Eastern Approaches to Reality
An examination of the philosophical perspective of the Eastern mind as exhibited in Hinduism, Buddhism, Taoism, Confucianism, Zen Buddhism. Primary focus is on the difference between the Eastern and Western modes of looking at the world. Prereq: PHL 201 or permission of instructor.
PHL 340: 3 s.h.
Ethics (G1)
Examines how to make rational decisions in situations with a moral dimension. Examines traditional and contemporary applied problems in ethics, e.g. sexual morality, cheating. Examines the moral implications of various lifestyles. Course goal is to assist students in developing the ability to function as morally autonomous persons. Prereq: PHL 201 or permission of instructor.

PHL 345: 3 s.h.
American Philosophy
Examines the main movements in American thought, especially the pragmatic. Course focus is on the relation between American philosophy and other aspects of the American experience and character. Classical and contemporary figures are treated. Examines specifically American thought outside of academic philosophy, e.g. in economics, literature, and psychology. Prereq: PHL 201 or permission of instructor.

PHL 350: 3 s.h.
The Concept of Mind
Investigates various philosophical theories concerning the nature of mind. Topics include: the possibility of artificial intelligence, the nature of consciousness, emotion, and imagination, dreaming, mind-brain identity, the concept of the unconscious, animal intelligence, the mind as program, and human freedom. Prereq: PHL 201 or permission of instructor.

PHL 360: 3 s.h.
The Concept of Knowledge
An examination of some philosophical concepts and arguments presupposed in discourse about knowledge. Topics include: the possibility that we do not know anything; problems of perception and illusion; problems of evidence acquisition; the nature of scientific knowledge; skepticism; astrology and religion; recent research in cognitive science. Major philosophical theories from both contemporary and historical sources are utilized. Prereq: PHL 201 or permission of instructor.

PHL 365: 3 s.h.
Science and Values
Examines problems raised by science and technology. Topics will include the ethics of experimentation; racism and sexism in science; the limits to technological growth; ecological and nuclear disaster; creationism versus evolutionism; ugliness and beauty in a technological environment. This course is geared to both specialists and non-specialists in philosophy or science. Prereq: PHL 201 or permission of instructor.

PHL 370: 3 s.h.
Philosophy of Language
An examination of the logical structures of descriptive and nondescriptive linguistic activities. Emphasis is on the picture theory of representational language as presented in Ludwig Wittgenstein's Tractatus Logico-Philosophicus. Prereq: PHL 201 or permission of instructor.

PHL 380: 3 s.h.
Health Care Ethics
An examination of the arguments designed to provide solutions to moral problems commonly faced by health care professionals. Topics will include lies to the sick and dying; abortion; euthanasia and the treatment of defective newborns; privacy and confidentiality; suicide intervention; paternalism and limiting liberty; allocation of scarce health care resources; strikes for better wages and working conditions; experimenting with human subjects; nurse/physician and nurse/client relationships; moral decision-making. Prereq: PHL 201 or permission of instructor.

PHL 390: 3 s.h.
Existentialism
Analyzes this twentieth-century movement which emphasizes human uniqueness and value. Existential themes include freedom, commitment, self-determination, and authenticity. Major philosophers considered are Keirkegaard, Nietzsche, Heidegger, and Sartre. Prereq: PHL 201 or permission of instructor.

PHL 420: 3 s.h.

Classic Greek Philosophy
A serious investigation of Western philosophy from the beginning through Aristotle. The relationships between philosophy and other areas of Greek culture are examined. Extended treatments of the pre-Socratics, Plato, and Aristotle are presented. Prereq: PHL 201 or permission of instructor.

PHL 422: 3 s.h.
Topics in Modern Philosophy
Includes study of the philosophical thought of the early scientists whose investigations culminated in the contemporary scientific method. Philosophers of the 17th and 18th centuries are examined, from Thomas Hobbes to Immanuel Kant. Problem areas of this period are the mind-body relationship, the possibility of knowledge, perception, and the status of ideas. Prereq: PHL 201 or permission of instructor.

PHL 423: 3 s.h.
Contemporary Philosophy
Analysis of the defining features of major contemporary philosophical movements, with attention primarily to logical positivism, linguistic analysis, pragmatism, and existentialism. Prereq: PHL 201 or permission of instructor.

PHL 450: 12 s.h.
Internship
Information can be obtained from Philosophy chairperson. NO MORE THAN SIX CREDITS COUNT TOWARD THE PHILOSOPHY MAJOR.

PHL 490: 1-3 s.h.
Seminar
A supervised investigation of a specialized problem in philosophy or into the writings of a specific philosopher or philosophic movement. Prereq: PHL 201 or permission of the instructor. May be taken for one through three credits.

PHL 497: 1-3 s.h.
Independent Study
See advisor

PSYCHOLOGY

Professor Keller, chairperson
Professors Feil, Grace, Murray, Seidel
Associate Professors Brown, Launius, Loher

The Psychology Department offers a B.S. degree in Psychology with tracks in Psychology and Human Resource Management. The Psychology track is chosen by students who (1) plan advanced study in the field, (2) intend to seek employment in a related area upon graduation, or (3) seek a liberal arts background within the Psychology major. Many graduates enter master's degree programs in counseling or related fields.

The Human Resource Management Track is designed to provide the foundation skills needed to fulfill traditional and newly emerging roles in personnel administration and human resource management. The track is often selected by students who have interests in both psychology and business management. Students usually intend to seek entry level human resource management positions in business, service, or health care settings. Some elect to obtain graduate level training in business administration or related areas.

Minors are available in Psychology and Psychology of Human Development. The Psychology minor provides a general survey of the field as well as an introduction to methods of psychological measurement and research. The Psychology of Human Development minor provides more focused study in areas of child, adolescent, or adult development.

Careful advisement of students is a priority of the Psychology Department. All students must complete a thorough orientation to the major, and their subsequent studies are guided by a goal-oriented process. All students maintain a portfolio to assess their learning and guide their academic and professional development. The portfolio is submitted for final review in conjunction with the department's senior seminar course.

Students are involved in various forms of research under faculty direction. Students present their research at the annual Psychology Research Symposium.

Many students report the internship to be an important part of their educational experience. For some, the internship leads directly to a job offer. The Psychology Department maintains relationships with a broad range of organizations that offer internships in counseling, other human services, health care, or business. To qualify for an internship students must maintain a B average in the major. Advisors work closely with students to plan the internship and ensure that the experience is successful.

GRADUATION REQUIREMENTS

To satisfy requirements for graduation as a Psychology major, students must (1) satisfy the University's general education and degree requirements, (2) complete the Psychology course requirements, (3) submit an acceptable portfolio, (4) pass a comprehensive exit examination, and (5) complete either an independent research project or an internship.

COURSE REQUIREMENTS

Psychology Major (B.S.): 128 s.h.

Psychology Track: 39 s.h. in psychology. Required courses: PSY 101, 151, 201, 202 or 250, 290, 490, 495 or 496 or 497, MA 125. Two from PSY 310, 391, 430. 4 s.h. from PSY 350, 350L; PSY 351, 351L; 460, 460L. Group A or B: A. PSY 300, 301; B. Select Two with Labs-PSY 350, 351, 460, 461, 462.

Human Resource Management Track: 48 s.h. in psychology and related fields. Required courses: PSY 101, 151, 201, 202 or 250, 290, 311, 313, 332, 410, 462, 491, 495 or 497. Two from 310, 391, 430. Cognate Areas: ACC 110, BUS 130, ECO 102, MA 125, SOC 101.

Social Studies Major (B.S.E.): 128 s.h.
Secondary Education Certification
Psychology Option
15 s.h. in psychology electives. For divisional requirements, see Social Studies.

Psychology Minor: 18 s.h.
PSY 101, 201 or 250, 290, 391 and 6 s.h. by advisement. MA 125 recommended.

Psychology of Human Development Minor: 18 s.h.
PSY 101, 290, 391 or 430. 6 s.h. from PSY 320, 321, 323, 324. 3 s.h. from PSY 210, 212, 310, 421, 422, 430.

COURSE DESCRIPTIONS

PSY 101: 3 s.h.
Introduction to General Psychology (G5)
Designed to familiarize students with the application of scientific psychology to human life. Emphasis is on "normal" behavior and its antecedents. It includes the study of broad categories of human behavior through various psychological models.

PSY 151: 3 s.h.
Introduction to Applications of Psychology
This course is intended for students who have recently become or are seriously considering declaring a psychology major. We will focus on assessing initial skill levels, career choices and planning, critical skills and experiences that may be required for entry into the workforce or graduate study, department policies and procedures, and writing style requirements of the American Psychological Association (APA).

PSY 201: 3 s.h.
Tests and Measurements in Psychology
This course covers the theories and techniques of behavior assessment, emphasizing computerized methods. It surveys psychological tests and their applications. Prereq: PSY 101; and MA 105 strongly recommended.

PSY 202: 3 s.h.
Survey and Data Analysis
A study of nonexperimental and survey techniques used in the behavioral sciences. The emphasis is on survey design, computerized data analysis using SPSS-X, and report writing. Prereq: PSY 101, 201, and MA 125.

PSY/SOC 203: 3 s.h.
Telephone Survey Research
Provides training in applied social research. Students are directly involved in constructing an interview schedule, selecting a sample, conducting telephone interviews, coding and analyzing data, and writing a report.

PSY 210: 3 s.h.
Psychology of Family Relations (G5)
This survey course covers the psychological dynamics of the family as a unit, parent-child interactions, the effect of developmental events on the psychology of the family, divorce, single parent families, etc. Class discussion, psychodrama, and video tapes are used to illustrate these concepts.

PSY 212: 3 s.h.
Human Sexuality (G5)
Provides a survey of scientific findings in the area of human sexual behavior, including topics of current interest and controversy, as well as traditional issues.

PSY 230: 3 s.h.
(ED) Educational Psychology
A study of the basic factors in the learning process, with emphasis on the application of principles of psychology to problems of learning and teaching. Prereq: PSY 101.

PSY 250: 4 s.h.
Experimental Design I
Studies the design of controlled experiments as well as quasi-experiments in the behavioral sciences. Prereq: PSY 101 and MA 125.

PSY 251: 4 s.h.
Experimental Design II
Advanced experimental techniques are learned through an individualized research project culminating in a report suitable for publication. Prereq: PSY 250.

PSY 290: 3 s.h.
Life Span Development (G5)
Provides a broad spectrum of developmental processes, starting with conception and continuing through the life span to the elderly. The effects of the environment and heredity on biological, psychological, and sociological development are also studied. Prereq: PSY 101 or permission of instructor.

PSY 292: 3 s.h.
Child Psychology
An in-depth study of development starting with conception and ending with adolescence. Physical, social/emotional, and cognitive development receive primary emphasis.

PSY 301: 3 s.h.
Helping Skills
Designed to help students develop effective listening and interpersonal skills for conducting counseling. The primary emphasis of this course is on (1) the application of counseling and psychological theory to actual casework and (2) the development of counseling skills through observing and conducting peer counseling sessions. Prereq: PSY 101 and upper division standing.

PSY 301: 3 s.h.
Theories of Counseling
Considers the major theories of psychological treatment and behavior change. The major theories covered will include: Psychodynamic, Humanistic, Transactional Analysis, Behavior, and Cognitive therapies. Special emphasis will be placed on utilizing therapeutic models in group treatments.

PSY 310: 3 s.h.
Social Psychology
Covers various individual aspects of social behavior. Attention is focused on issues of perception, thinking, and motivation. The following topics are examined: theories of person perception; attitude formation; personality structure; motivational determinants of group membership and social conformity; social roles; and leadership. Prereq: PSY 101.

PSY 311: 3 s.h.
Introduction to Small Group Processes
Basic principles of small group process are examined through didactic and experiential approaches. Applications in various settings are considered.

PSY 312: 3 s.h.
Deviant Behavior and Social Process
Psychological theories of deviant behavior are studied. Major areas of focus include sexual deviations, prostitution, juvenile delinquency, suicide, obesity, drug addiction, and so on. Various treatment modalities are also explored. Prereq: PSY 101.

PSY 313: 3 s.h.
Psychology of Interviewing
An introduction to theoretical, methodological and technical considerations of interviewing from a psychological perspective. Designed for those interested in the applications of interviewing in an industrial or organizational setting. Skill development is emphasized.

PSY 321: 3 s.h.
Adolescent Psychology
Begins with the changes occurring as a result of puberty and ends with the transition to young adulthood. The results of the interaction between heredity and the environment as they affect adolescent development are a major focus of the course.

PSY 323: 3 s.h.
Cognitive and Moral Development
Acquaints students with basic concepts and constructs in cognitive and moral development. It focuses on current theories and research such as the work of Piaget and Kohlberg.

PSY 324: 3 s.h.
Adult Development and Aging
Addresses the study of trends in human development from the transition to early adulthood, through senescence, to death. Examines the social biological, cognitive, and personality components of the aging process. Emphasizes variations in psychological adaptations to personal changes and role transitions during the adult years. Prereq: PSY 101.

PSY 330: 3 s.h.
Drugs and Behavior
A comprehensive overview of drug use and abuse in American society. Students are provided with a behavioral framework for understanding drug consumption through review of major pharmacological, physiological, and social variables. Prereq: PSY 101.

PSY 331: 3 s.h.
Psychology of Consciousness
Emphasizes research and applications relevant to the psychology of consciousness and altered states. Prereq: PSY 101 or equivalent and at least junior standing.

PSY 332: 3 s.h.
Psychology of Stress Management
Provides a current overview of stress and stress-related dysfunction. Techniques for managing stress are emphasized through demonstration and student participation. Prereq: PSY 101 or equivalent and at least junior standing, or permission of instructor.

PSY 333: 1 s.h.
Introduction to Biofeedback Techniques
Theory and applications of biofeedback technology to pain, psychosomatic, and other stress-related problems, are reviewed. Prereq: PSY 101 and at least junior standing, or permission of instructor.

PSY 350: 3 s.h.
Experimental I: Learning
Surveys theories, research methodologies, and findings in the area of learning are reviewed. May be taken with or without PSY 350L, which adds a 1 credit laboratory experience. Prereq: PSY 250, or permission of instructor.

PSY 351: 3 s.h.
Experimental II: Perceptual Processes
Basic phenomena of the senses, their physiological correlates, and integration into complex perceptual judgments are reviewed. May be taken with or without PSY 351L which adds a 1 credit laboratory experience. Prereq: PSY 250, or permission of instructor.

PSY 391: 3 s.h.
Abnormal Psychology
Provides students a general introduction to the field of abnormal psychology. Major models of psychopathology and the causes and symptoms of abnormal thinking and behavior are considered. Prereq: PSY 290 or permission of instructor.

PSY 410: 3 s.h.
Industrial and Consumer Psychology
Examines the applications of psychology to business, industry, and marketing. Prereq: PSY 101.

PSY 412: 3 s.h.
HRM Special Topics
This course examines specific, variable topics related to the field of human resource management. Regularly offered topics include compensation and benefits, training and management development, organization development, and labor relations. Students may repeat the course but not the same topic for up to twelve credits. Prereq: Upper level status or permission of instructor.

PSY 421: 3 s.h.
Death and Dying
Provides an overview of the psychological aspects of death and dying in our society. Topics include attitudes toward and preparation for death, the terminally ill patient, funeral rituals and burial, mourning and grief, and suicide and euthanasia. Classroom material is supplemented by students' self-exploration and writing on feelings, attitudes, and beliefs about death.

PSY 422/522: 3 s.h.
Psychology of Women
An in-depth study of how psychological development, life experiences, and social change interact to affect women's development across the life span.

PSY 430: 3 s.h.
Theories of Personalities
Considers major personality theories ranging from psychoanalytic to humanistic and behavioral models. Papers and discussion concentrate on examining merits and limitations of various theories.

PSY 460: 3 s.h.
Physiological Psychology
Emphasizes physiological aspects of behavior through knowledge of neurological structure and function. May be taken with or without PSY 460L which adds a 1 credit laboratory experience. Prereq: PSY 250 or by permission of instructor.

PSY 461: 4 s.h.
Experimental Social Psychology
Research designs and methods for the study of problems in social psychology are critically examined. Covers experimental projects with questionnaires, scales, interviews and observation methods. Problems of sampling and data analysis are also considered. Prereq: PSY 101, or permission of instructor.

PSY 462: 3 s.h
Behavior Modification
Provides an introduction to various techniques for altering behavior based on learning principles. May be taken with or without PSY 462L, which adds a 1 credit laboratory experience. Prereq: PSY 101.

PSY 490: 3 s.h.
Senior Seminar
Psychology majors are presented the formal opportunity to explore professional functions of psychologists and human service workers in related roles as well as various areas of current interest in applied psychology. Prereq: Senior standing as a psychology major or permission of the instructor.

PSY 491: 3 s.h.
Seminar in Human Resource Management
Reviews and discusses (students in the Human Resources emphasis) current issues in personnel administration and human resource management. Practical demands of the work situation are emphasized. Prereq: Junior or senior majors, or those with permission of the instructor or chairperson.

PSY 495: 6-15 s.h.
Preprofessional Experience
(This is an internship.) Provides practical experience and beginning skills to selected students majoring in psychology. The experience focuses on applied skills, community services, or research work in settings appropriate to the students' interests and curriculum, including mental health and other human service programs, hospitals, personnel offices, and industrial or government agencies. The goal is to relate theoretical learning to practical applications. Prereq: Consent of the department chairperson based on the recommendations of the department faculty. Application procedures, criteria for qualification, and obligations of the experience can be obtained from the department office.

PSY 496:6-15 s.h.
Research Apprenticeship
Designed to provide students with intensive experiences in empirical research under close supervision. Qualified students will become involved in ongoing research projects, working along with experienced researchers. Students are encouraged to serve their apprenticeship at other campuses or institutions.

PSY 497: 1-3 s.h.
Independent Study

ROBERT PACKER DEPARTMENT OF HEALTH SCIENCES

Associate Professor Sheehe, chairperson
Associate Professor Biblehimer
Assistant Professors DePumpo, Barrett, McGuire, Seigart,
Instructors Bylaska-Davies, Kozlowski, Materese, May, McEwan, VanDuzer, Wright,
Clinical Instructors Abrey, Buchta, Covey, Daniels, Felt, O'Donnell, Onofre, Walker

Nutrition and Dietetics (B.S.): 128 s.h.

Degree: Baccalaureate of Science in Nutrition and Dietetics

Mansfield University's American Dietetic Association approved program includes specialized courses in nutrition, food service, chemistry, psychology, and biology. Students have the opportunity to learn about community nutrition, food production, and dietetics in a hands on environment.

Graduates of this program have two options: (1) to obtain an American Dietetic Association accredited internship in order to become a Registered Dietitian or (2) to obtain an entry level job in the fields of nutrition or food service management.

Career opportunities in this growing field include jobs in schools, industry, food service operations, hospitals, nursing homes, private practice, and a variety of public and private organizations.

Required Dietetics Courses:
Dit 211, 305, 306, 314, 315, 316, 410, 411, 417
Required Major Related Courses:
BSC 121, 122, BI 371, BUS 130, CHM 201, ED 305, PSY 291, PSY 300
Required General Education Courses:
CHM 101,102, ECO 101,102, MA 125, PSY 101, SOC any course with this prefix

Nursing

Degree: Baccalaureate of Science in Nursing (B.S.N.): 131 Credits

Mansfield University's National League for Nursing accredited, state board of nursing approved, nursing curriculum provides a solid background in nursing, as well as in the liberal arts and sciences. It prepares students to work in a variety of professional settings.

Students spend their first two years on the Mansfield campus taking courses in general education and in the major. The second two years are at the Guthrie Healthcare System in Sayre, PA. where they gain extensive acute care clinical experiences within a wide range of clinical specialties. Students also have the opportunity to learn in community settings such as nursing homes, school districts, nursery schools, and outpatient clinics in addition to traditional public health agencies.

The Robert Packer Department of Health Sciences — Nursing at Mansfield University blends the resources of a public university and a medical center. The combination leads to a program that is strong both academically and clinically.

The goals of the program are to provide students with essentials necessary to develop intellectual curiosity, critical thinking skills, therapeutic nursing skills and communication skills which provide the basis for the development of a successful professional nursing practitioner. This educational program prepares students for basic entry level career opportunities in both acute care, chronic care and community settings.

Required Nursing Courses:
Nur 250, 251, 360, 370, 371, 380, 390, 460, 470, 471, 472, 480 and 3 s.h. nursing elective.
Required Major Related Courses:
BSC 122, BIO 370, DIT 211

Required General Education Courses:
BIO 121, CHM 110, MA 125, SOC 101, PSY 290, PHL 380.

Radiology Technology
Degree: A.A.S., Radiology Technology: 70 s.h.
This is a two-year, joint program with Mansfield University and Guthrie Healthcare System in Sayre, PA. It includes coursework at MU during the first semester. Other coursework and clinical experience is at the Robert Packer Hospital during the second through fourth semesters. Summer clinical courses are a requirement of the program. The curriculum prepares students for an entry-level position as a radiology technologist. Graduates of this program are eligible to sit for the radiology technology certification examination.
Required Radiologic Technology Courses:
XRT 101, 102, 103, 104, 105, 106, 203, 301, 302, 303, 304, 305
Required General Education Courses:
COM 101, ENG 112, PSY 101, SOC 101, PHL 191, CIS 103, BSC 121, BSC 122, PHY 165, one of the following math courses: MA 125, 165, 170, 231.

Respiratory Therapy
Degree: A.A.S., Respiratory Therapy: 67 s.h.
This is a two-year, joint program with Mansfield University and Guthrie Healthcare System in Sayre, PA. It includes coursework at MU during the first semester. Other coursework and clinical experience is at the Robert Packer Hospital during the second through fourth semesters. Summer clinical courses are a requirement of the program. The curriculum prepares students for an entry-level position as a respiratory therapist. Graduates of this program are eligible to sit for the respiratory therapist certification examination.
Required Respiratory Therapy Courses:
RTH 101, 102, 103, 104, 107, 108, 109, 110, 201, 204, 206, 207, 208
Required General Education Courses:
ENG 112, COM 101, PSY 101, SOC 101, PHL 191, CIS 103, BSC 121, BSC 122, CHM 101, one of the following math courses: MA 125. 165, 170, 231.

COURSE DESCRIPTIONS

Nutrition & Dietetics

DIT 101: 3 s.h.
Personal Nutrition
Examines how good nutrition improves health and risk factors for nutrition related diseases. This is an excellent course for those people who wish to improve their eating habits. This course DOES NOT fulfill requirements for the Health Science Department B.S. students.

DIT 211: 3 s.h.
Introduction to Nutrition
Introduces the science of nutrition, the nutrient needs of the body, and the foods that meet these needs.

DIT 305: 3 s.h.
Principles of Food Science
Applies physical and chemical principles as related to the selection, preparation and storage of food. Prereq: DIT 211 and permission of instructor.

DIT 306: 3 s.h.
Meal Management
A study of the principles of planning, preparation, and service of meals. Discussion of food safety, sanitation, and marketing, menu planning and government regulations are included. Prereq: DIT 211, 305 and permission of instructor.

DIT 314: 3 s.h.
Nutrition Throughout the Life Cycle
The study of nutritional requirements and issues as they pertain to fetal development, infancy, childhood, adolescence, pregnancy and the adult years. Prereq: DIT 211 or permission of instructor

DIT 315: 3 s.h.
Food Service Organization and Management
Examines management functions in the food service industry including methods, procedures, and techniques in dealing with personnel. Prereq: DIT 305 and DIT 306 or permission of the instructor

DIT 316: 3 s.h.
Community Nutrition
Addresses issues of nutrition services in the community including needs assessment, implementation, and program evaluation. Provides opportunity for students to become familiar with WIC, school lunch, congregated meals, cooperative extension, etc. Prereq: DIT 211 or permission of instructor

DIT 410: 3 s.h.
Diet Therapy
The study of the physiology of disease states, related nutritional implications and indicated dietary modifications. The role of the dietician, as a member of the health care team, will be emphasized. Prereq: DIT 211, 305, 306, CHM 101 and CHM 102

DIT 411: 4 s.h.
Quantity Food Production
Quantity food production, menu planning, purchasing, receiving, and sanitation and safety techniques in food service. Laboratory experience in quantity food production. Prereq: DIT 211, DIT 305 and 306 or permission of the instructor

DIT 417: 3 s.h.
Survey of Nutrition
Chemistry of nutrients, metabolism, and normal nutritional requirements throughout the human life cycle. Current research, nutrition myths, and assessment techniques are highlighted. Prereq: eight credits in Chemistry, three credits in foods and DIT 211.

DIT 419: 4-15 s.h.
Dietetics Practicum
Supervised and evaluated participation in varied settings provides practical application of theoretical principles. Provides career-related skills to selected students. May be taken for 4-15 credits. Prereq: 21 credits DIT classes, senior status, overall QPA 2.5, QPA in DIT 3.0.

Nursing

NUR 250: 4 s.h.
Introduction to Nursing and Health Care I
An introduction to basic concepts of nursing. Focus is on the role and function of the professional nurse within the health care system and provides an overview of the nursing process and the health care needs of the individual adult client. Laboratory and clinical experiences are offered in a variety of settings and at all levels of prevention.

NUR 251: 4 s.h.
Introduction to Nursing and Health Care II
Builds and focuses on the concepts introduced in 250, assisting the student to further clarify and conceptualize the professional nursing role. The effects of religious, cultural, sociological, and economic events on the development of nursing are examined. Labo-

ratory and clinical experiences are provided in a variety of settings and at all levels of prevention. Prereq: NUR 250.

NUR 260: 3 s.h.
Concepts of Professional Nursing
A seminar designed to introduce RN students to the theoretical and philosophical bases underlying professional nursing practice. Role theory with an emphasis on the development of the professional self-concept will be explored. Open to RN students only.

NUR 360: 3 s.h.
Introduction to Nursing Research
Provides an overview of the steps in the research process and the ethical and legal standards involved in scientific inquiry. The purpose, development, and importance of research in the nursing profession is emphasized. In addition, the course provides the knowledge and methods required to critically evaluate research studies and reports. Prereq: MA 125, NUR 250 and 251.

NUR 370: 8 s.h.
Nursing of the Adult Client
Explores the use of the nursing process with adult clients as they encounter actual and potential stressors along with the wellness-illness continuum. The clinical lab provides the student with opportunities to apply the nursing process at all levels of prevention and to observe various roles of the professional nurse within the health care system. Prereq: BIO 121, 122, 355, CHM 110, NUR 250 and 251.

NUR 371: 8 s.h.
Nursing Care of Childbearing and Childrearing Families
Explores the use of the nursing process with individual and family clients. The focus of the role of the nurse in meeting the health care needs of childbearing and childrearing families at all levels of prevention and in a variety of settings. The course content focuses on growth and development, family issues and assessment, the change process, and stressors for and reaction of individuals and families. Prereq: BIO 121, 122, 355, CHM 110 and NUR 251.

NUR 380: 2 s.h.
Nursing Physical Assessment
Designed to assist the student in obtaining the cognitive and psychomotor skills to assess individuals as they encounter actual and potential stressors along the wellness-illness continuum. Includes both a classroom and learning laboratory component which incorporates principles of interviewing, comprehensive health history, sequential physical assessment, analysis of collected data and documentation. Prereq: BIO 121, 122, 355, CHM 110, NUR 250 and 251.

NUR 390: 2 s.h.
Pharmacological Basis for Nursing Practice
Utilizes the nursing process to provide a pharmacological basis for nursing practice. Includes discussion of pathophysiological phenomena and pharmacological interventions including pharmacokinetics, pharmacodynamics, and implications for professional nursing practice. Prereq: BIO 121, 122, 355, CHM 110, NUR 250 and 251.

NUR 402: 3 s.h.
Women's Health Issues
Designed to explore and analyze a wide range of women's health issues from a multidisciplinary perspective. It is presented in a seminar format utilizing feminist pedagogy. A high level of student participation is expected.

NUR 420: 3 s.h.
Teaching in Nursing
Examines teaching and learning principles, and educational issues. Students will practice teaching/learning strategies in a nursing education or nursing practice setting. Focus will be on the client or nursing education. Prereq: NUR 370 and 371.

NUR 430: 3 s.h.
Communications in Nursing
Provides both theory and classroom experiences with communications in nursing which will support, reinforce, and expand on concepts from previous courses. The acquisition of knowledge and the development of skills which will assist one in becoming more effective in the client-nurse relationship are emphasized. Verbal and non-verbal communication techniques, problem solving, empathy, self-disclosure, confrontation, relaxation, and responsible/assertive communications are some of the topics are examined. Prereq: COM 101, NUR 250 and 251.

NUR 453: 3 s.h.
Creative Interventions in Nursing Care
Several creative interventions will be defined, described, and studied. These interventions will include humor and laughter, storytelling, music therapy, relaxation therapy, clowning and creative movement. The nursing role and nursing process involved in these interventions will be explored. The nursing student will apply the use of one creative intervention to the clinical setting. Prereq: NUR 250, 251, 370 and 371

NUR 454: 3 s.h.
Gerontics/Normal Aging
Provides both theoretical content and interaction with the well-elderly. Assessing and assisting the aging to maintain wellness will be the major focus. Prereq: NUR 250, 251 and SOC 101

NUR 460: 3 s.h.
Current Issues in Professional Nursing
A seminar which examines current trends, controversies, questions, and dilemmas of professional nursing. The influence of political, ethical/legal, economic, and societal aspects on nursing practice and education are explored. Prereq: junior level nursing courses.

NUR 470: 3 s.h.
Nursing Care of the Client with Multisystem Stressors
Examines the nursing process to care for adult clients and families with acute and multiple health problems which penetrate the lines of resistance. Prereq: junior level nursing courses

NUR 471: 6 s.h.
Community Health Nursing
Explores the scope of community health nursing considering the multiple frameworks of nursing theory and process, family theory and practice, and public health principles. Emphasis is placed on studying the relationships between individual, family, and community health care needs. Prereq: junior level nursing courses

NUR 472: 6 s.h.
Mental Health Nursing
Focuses on the mental health concepts relative to the nursing care of clients. The nursing process is examined and applied primarily with individuals, but also includes families, groups, and communities and takes place in a variety of settings. Emphasis is placed upon the nurses role of collaboration with other health care professionals in meeting the health care needs of clients at all levels of prevention. Prereq: junior level nursing courses

NUR 480: 3 s.h.
Leadership and Management in Nursing
Introduces the student to the theoretical foundation for the practice of independent and interdependent nursing by discussing current leadership and management concepts and their relevance to professional nursing practice. Prereq: junior level nursing courses.

NUR 497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

Respiratory Therapy

RTH 101: 3 s.h.
Respiratory Therapy I
Examines the scientific principles underlying the safe administration of medical gases and aerosols to patients in the hospital setting.

RTH 102 : 3 s.h.
Respiratory Therapy II
Classroom instruction and laboratory practice of fundamental respiratory care assessment and therapeutic procedures. Assessment topics include chest physical examination, chest x-rays, electrocardiograms, and bedside pulmonary function tests. Therapeutic topics include oxygen and aerosol therapy, hyperinflation therapies, chest physical therapy, airway management, and cardiopulmonary resuscitation. Prereq: RTH 101.

RTH 103: 4 s.h.
Respiratory Therapy III
Classroom instruction and laboratory practice in the management of patients requiring continuous mechanical support of ventilation. Prereq: RTH 102.

RTH 104: 3 s.h.
Respiratory Therapy IV
Examines cardiovascular problems, advanced cardiopulmonary monitoring techniques, special procedures, pulmonary rehabilitation, and home care. Prereq: RTH 103.

RTH 107: 1 s.h.
Clinical Practicum I
Introduction to the clinical practice of respiratory care. Provides experience in the administration of oxygen, aerosols, hyperinflation therapies, chest physical therapy, and artificial airway care. Examines the fundamentals of arterial blood gas sampling and analysis. Prereq: RTH 101 concurrent with 102.

RTH 108: 1 s.h.
Clinical Practicum II
Designed to achieve competence in the administration of routine respiratory therapy modalities and competence in arterial blood gas sampling and analysis. Students will accompany pulmonary physicians on patient rounds and rotate through other clinical areas of the hospital. Prereq: RTH 102 and 107.

RTH 109 : 2 s.h.
Clinical Practicum III
Application of respiratory care to the patient in the critical care unit. Emphasis is on the management of adult and pediatric patients requiring mechanical support of ventilation. Prereq: RTH 108 concurrent with 103.

RTH 110: 3 s.h.
Clinical Practicum IV
Continuation of RTH 109. Designed to achieve competence in the performance of all critical care procedures performed by the respiratory therapists. Prereq: RTH 109 concurrent with 104.

RTH 201: 3 s.h.
Pulmonary Physiology
Detailed discussion of the fundamental physiology of the human respiratory system. Techniques used in the hospital pulmonary function laboratory to assess abnormal lung function are described and demonstrated, and an interpretation of the results of pulmonary function testing and arterial blood gas analysis is included. Prereq: BIO 121.

RTH 204: 2 s.h.
Pharmacology
Examines the action and uses of pharmacologic agents. Emphasis is on drugs used in the diagnosis and treatment of cardiac and pulmonary disease, and includes the calculation of dosages and solutions.

RTH 206: 2 s.h.
Introduction to Disease
Introduction to the disruption of life's healthful mechanisms. Topics include cellular and tissue response to injury, inflammation and repair, circulatory disease, immunopathology, neoplasia, genetic diseases, and infectious disease. Provides knowledge of the fundamental processes that underlie disease to facilitate a better understanding of specific diseases encountered later. Prereq: BIO 103 and 104.

RTH 207: 2 s.h.
Pulmonary Disease
Introduction to common pulmonary disorders and their management. Topics include chronic obstructive pulmonary disease, restrictive pulmonary disorders, infectious pulmonary disease, pulmonary vascular disease, pulmonary pathology due to trauma, neonatal cardiopulmonary disease, and pediatric pulmonary disease. Prereq: RTH 206.

RTH 208: 2 s.h.
Perinatal/Pediatric Respiratory Care
Examines respiratory physiology and pathophysiology relevant to the newborn and pediatric patient. The principles, techniques, and equipment relied upon in providing respiratory care to this age group are identified and demonstrated. Prereq: RTH 102.

X Ray

XRT 101: 3 s.h.
X-Ray Technology I
Introduction to the basic elements of radiologic technology. Students will discuss and evaluate medicolegal issues, radiation protection, medical terminology, and introductory radiographic procedures.

XRT 102: 3 s.h.
X-Ray Technology II
Basic introduction to imaging equipment and concepts of patient care. Students will learn examination considerations for the extremities, spine, shoulder girdle, pelvic girdle, and bony thorax. Prereq: XRT 101.

XRT 103: 5 s.h.
X-Ray Technology III
Acquaints the student with the methods of x-ray film processing and principles of radiation biology. Emphasis will be placed on examinations of the cranium. Radiographic

consideration of examinations using contrast media and film evaluation will be discussed. Prereq: XRT 102.

XRT 104: 3 s.h.
X-Ray Technology IV
Studies the principles of radiographic exposure. Emphasis is placed on radiographic examinations of the urinary system and alimentary canal. Students will evaluate radiographic concepts. Prereq: XRT 103.

XRT 105: 3 s.h.
X-Ray Technology V
Examines the radiographic aspects of human disease and pathology. Provides the basic concepts and techniques of radiologic quality assurance and continues to evaluate radiographic images. Prereq: XRT 104.

XRT 106: 4 s.h.
X-Ray Technology VI
Reviews the knowledge and cognitive skills underlying the intelligent performance of the major tasks typically required of an entry-level radiographer. Students will learn the methodology of scientific technical reporting and evaluation. Prereq: XRT 105.

XRT 203: 3 s.h.
X-Ray Physics
Designed to introduce and provide background for the more technical aspect of radiological physics. Provides background for understanding the principles and practices of radiology, and an understanding of the electromagnetic spectrum. Prereq: PHY 165.

XRT 301: 2 s.h.
Clinical Practicum I
Examines the proper use of modern diagnostic x-ray equipment. Provides a general orientation regarding hospital facilities and policies. Students will perform, while under the direct supervision of a registered radiographer, examinations presented in XRT 102. Prereq: XRT 101.

XRT 302: 2 s.h.
Clinical Practicum II
Students continue to practice the skills learned in XRT 301, and expand their clinical education into newer areas. They will perform, while under the direct supervision of a registered radiographer, examinations presented in courses XRT 102 and 103. Patient contact and responsibilities will increase in this course. Prereq: XRT 102 and 301.

XRT 303: 2 s.h.
Clinical Practicum III
Provides more advanced examinations presented in XRT 103 and 104. Training in the modalities of Nuclear Medicine and Computerized Tomography will be provided with a two-week rotation through each area. Students will demonstrate traumatic examination skills in the Emergency Room X-Ray Department practicum. Prereq: XRT 103 and 302.

XRT 304: 3 s.h.
Clinical Practicum IV
Students continue to perform radiographic examinations in the general diagnostic clinical area along with rotations through Special Procedure, MRI, Ultrasound, and Radiation Therapy. Assignments will be given involving the quality assurance testing of diagnostic x-ray equipment. Prereq: XRT 104 and 303.

XRT 305: 2 s.h.
Clinical Practicum V
Performance of radiographic examinations that are done by entry-level radiographers. Patient contact and responsibility will increase with examinations performed under indirect supervision. A clinical elective will be selected for further specialization in any area of radiology. Prereq: XRT 105 and 304.

SOCIAL WORK, ANTHROPOLOGY, AND SOCIOLOGY

Professor Miller, chairperson
Professors Largey, Wooley
Associate Professors Funmaker, Mabe

Social Work

Social Work is a nationally-accredited program that prepares students to work not only with inner city problems, but also examines the social problems in American suburbs, small towns, and rural regions.

The Social Work program prepares social work generalists for beginning social work practice and is accredited by the Council on Social Work Education at the baccalaureate level. Courses include Sociological Perspectives, Organizational Behavior, Human Behavior and the Social Environment, American Family Systems, Social Work Techniques, and Social Research, among others. In addition to a variety of internships, field placements are available in Zimbabwe and Australia.

Some careers: Positions in mental health/mental retardation, drug and alcohol, children and youth services, various aging programs, and hospitals. Because of being nationally accredited, many courses taken at MU are accepted as graduate courses which means a master's degree can be completed in one year. Job placement has been nearly 100% in recent years.

Students intending to work with children in Pennsylvania will be subjected to provisions of Act 34 of the PA Legislation requiring screening through the PA State Police and the Child Abuse Hotline.

Sociology/Anthropology

Sociology is the scientific study of human social behavior. Sociologists study the processes and patterns of individual and group interaction, the forms of organization of social groups, the relationships among them, and group influences on individual behavior. Focus is given to the understanding of group or other collective factors in human behavior.

Anthropology is the study of humankind. To incorporate all aspects of the human experience, anthropology has four major subdisciplines: Physical Anthropology, the study of the biological evolution of humans; Archaeology, the study of the evolution of culture; Linguistic Anthropology, the study of human languages; and Cultural Anthropology, the study of the variations and similarities of human behavior cross-culturally. The department offers introductory courses in all four subdisciplines but the major focus is in cultural anthropology.

The major in Sociology/Anthropology prepares students for a variety of careers in our increasingly multi-cultural society through critical thinking and evaluation, and appropriate research methods and analysis. Students are encouraged to choose a concentration in either Sociology or Anthropology, but a broad based, liberal education in both and interdisciplinary studies outside the department is strongly recommended. The program is designed to allow students maximum flexibility to pursue their own interests and career goals and combines easily with minors in other disciplines.

A bachelor's degree prepares students for entry-level positions in marketing, political survey analysis, applied human relations in both the public and private sector, and research organizations. In addition, a concentration in Anthropology prepares students for employment in archaeology and the many organizations which hire anthropologists for applied human relations work with diverse cultures such as refugee and immigrant com-

munities. The degree also prepares students for graduate work in either Sociology or Anthropology, and is an excellent background for advanced degrees in many other disciplines.

The department also offers minors in Sociology, Anthropology, Native North American Studies, and African-American Studies.

COURSE REQUIREMENTS

Social Work (B.S.W.): 120 s.h.

ANH 101; BSC 101; PSC 206; PSY 101; SOC 101, 121, 232, 301, 307; SWK 200, 241, 257-259, 308, 315, 350-353, 452, 453.

Sociology-Anthropology Major (B.A.): 120 s.h.

ANH 101; SOC 101; PHL 230; 9 additional SOC or
ANH credits at the 100-200 level; 9 additional SOC or ANH credits at the 300-400 level; ANH 410; ANH 480 or SOC 480; ANH 490 or SOC
497.

Social Studies Major (B.S.E.): 128 s.h.

Secondary Education Certification
Sociology/Anthropology Option
15 s.h. in sociology or anthropology. For divisional requirements, see Social Studies.

The Anthropology/Sociology Program offers 4 minors:

Minor in Anthropology: 18 s.h.

The minor in Anthropology is designed to complement majors in the social sciences, humanities, and professional studies which train students to work with people who have backgrounds different from their own. Interest, however, is also a good reason.

Requirements:
ANH 101; 6 credits from 100 & 200 level courses by advisement;
9 credits from 300 & 400 level courses by advisement

Minor in Sociology: 18 s.h.

SOC 101; SOC 121; SOC 301 and nine additional hours of SOC electives. Especially recommended for Criminal Justice, Public Relations, Marketing, and Social Work majors.

Minor in Native North American Studies: 18 s.h.

Native North American Studies is concerned with traditional and contemporary Native nations located pre-historically in the Native Western Hemisphere but now in Indian Country, United States of America, Canada, and Mexico.

Requirements:
ANH 101; ANH 270; either SOC 220 or ANH 240 (pending approval);
either HST 430 or ANH 305; 6 credit hours of electives: ENG 401; ARH 324; ANH 405; or by advisement.

Minor in African-American Studies: 18 s.h.

The African-American Studies Minor is designed for students interested in the literacy, historical, artistic, and sociological significance of African-American culture. It is a structured and interdisciplinary course of study.

Requirements:
6-9 credit hours form the following core courses:
ARH 229; ENG 220; SOC 305; HON 100, 101, & 201: when offered as an African-American topic; ID 201: when offered as an African-American topic; at least 6 hours of ANH 308; ENG 305; ENG 320; HST 310; HST 388; either ENG 401 or ANH 497. Electives-MUS 201; SOC 200; SPE 330.

COURSE DESCRIPTION

Anthropology

ANH 101: 3 s.h. (G5)
Cultural Anthropology
Introduction to culture as a conceptional model and to the variations in behavior systems found among human societies. Cultural institutions are examined including the processes associated with their development and change.

ANH 102: 3 s.h. (G5)
Physical Anthropology: Human Evolution
Study of the evolution of humankind with attention on human variation. Techniques involved in the discovery, reconstruction, and the classification of fossil hominid are treated. Provides an introduction to physical anthropology including prehistoric archaeology.

ANH 250: 3 s.h. (G5)
Anthropology of Gender
Follows the sociological movement of women in society from birth to death. The student will be given a broad perspective of women's traditional roles and how the changing of those roles affects both society and personal relationships. Contemporary women's issues will be viewed in the social context. Readings include case studies, literature, and sociological and anthropological studies.

ANH 260: 4 s.h. (G5,L)
Archaeological Methods
Course describes excavation techniques, descriptions, analysis, and interpretation of archaeological sites. Students will be involved in ongoing archaeological research in the local area, and will participate in both archaeological field testing and laboratory analysis. Prereq: ANH 101 or permission of instructor.

ANH 270: 3 s.h. (G5)
Native North Americans: Contemporary Issues
Traces the distinctive and enduring Native American contemporary cultural issues from a historical perspective.

ANH 280: 3 s.h. (G5)
Anthropological Linguistics
This course teaches the basics of anthropological linguistics which provides pronunciation, grammar, structure, and vocabulary needed to know and understand linguistics.

ANH 301/501: 3 s.h. (G5)
World Cultures
Comparative study of selected major cultural areas of the world. Institutional patterns characterizing the cultural complexes of Europe and Southwest Asia, South Asia, Southeast Asia, North and South America and Africa south of the Sahara will be examined. Prereq: ANH 101 and permission of instructor.

ANH 305: 3 s.h.
Native North Americans: Cultures
Provides an understanding of native cultures before contact with Europeans.

ANH 308: 3 s.h.
Sub-Sahara Africa
This course is an in depth study of the diversity of African cultures south of the Sahara Desert. An overview of the Sub-Saharan African cultures will be presented followed by detailed studies of representative cultures from each of the linguistic and cultural areas. Prereq: ANH 101

ANH 350: 3 s.h.
Selected Topics Seminar
Review of a specialty area in anthropology or the study of a problem from an interdisciplinary position. Prereq: upper division status or permission of instructor. May be repeated for different topics.

ANH 405: 3 s.h.
Native North Americans: Worldview and Ecology
An anthropological approach to ecology and Native American worldview to explain cultural phenomena regarding the interrelationships of humankind and the environment.

ANH 410: 3 s.h.
Ethnographic Methods
Examines qualitative field work methods of participant observation and unstructured interviews. The student is introduced to his/herself as actor in social situations and analyzes campus life (small segments). Prereq: Upper division status, ANH 101, SOC 101 and at least one other upper level anthropology or sociology course.

ANH 440: 3 s.h.
Anthropology of Belief Systems
This course explores how societies construct meaning through belief systems. Symbolic systems will be explored cross-culturally, including indigenous religion, witchcraft, magic, shamanism, and cultural spirituality. Major emphasis will be on anthropological theories of symbolic form. Prereq: ANH 101 and at least two upper level courses in anthropology or permission of instructor.

ANH 480: 3 s.h
Anthropological Theory
A seminar on the history and development of anthropological thought from social evolution through post-processual theory. This course covers both macro and mid-range theories and current trends in the anthropological perspective. Prereq: upper class standing in the major.

ANH 490: 3-12 s.h.
Field Study
Supervised field work in any subdiscipline of anthropology: physical, archaeology, linguistic, or cultural anthropology. Individually arranged. Prereq: Upper class standing in the major or permission of instructor.

ANH 497: 1-3 s.h.
Independent Study
See description in Academic Policies section. May be taken for one, two, or three credits at one time.

Sociology

SOC 101: 3 s.h.
Introduction to Sociology (G5)
Introduction to the basic concepts, premises, and techniques involved in the scientific approach to the study of human societies. Analysis is made of selected aspects of social behavior at interpersonal, intergroup, and societal levels of contemporary American society.

SOC 121: 3 s.h.
Contemporary Social Problems (G5)
Survey of social problems confronting American society today. Special attention is given to theoretical and social policy approaches to social problems.

SOC 200: 3 s.h.
American Minorities
An examination of the individual and group processes by which the United States has been peopled by diverse racial, religious, and ethnic groups. Consideration is given to the similarities and differences in the values and experiences of a variety of groups and to the relative strength of tendencies toward the assimilation and preservation of distinguishing characteristics. Prereq: ANH 101 or SOC 101.

SOC 203: 3 s.h.
Telephone Survey Research
An applied social research course. Students are directly involved in constructing an interview schedule, selecting a sample, conducting telephone interviews, coding and analyzing data, writing, and disseminating a report. Cross-listed with PSY 203.

SOC 232: 3 s.h.
American Family Systems (G5)
An examination of the diversity of marriage and family life in American society. Focus is given to the identification and function of various values, norms, and codes in marriage and family decision-making.

SOC 300: 3 s.h.
Men in Society
An examination and analysis of traditional male sex-roles, as well as the evolution of societal definitions of masculinity and the 'New' Men's Movement. Male/male and male/female relationships and communication are critiqued and evaluated. The emphasis throughout is upon student application of critical thinking skills to appropriate written and media sources of sociological information. Dual listed with 500.

SOC 301: 3 s.h.
Organizational Behavior
Examines the social dimensions of work organizations including formal and informal interaction patterns, leadership, and organizational culture. Prereq: ANH 101 or SOC 101.

SOC 305: 3 s.h.
Sociology of Religion
Analysis of the interrelationships between religion and other aspects of society particularly with reference to the problems of order and change. Prereq: SOC 101.

SOC 306: 3 s.h.
Interracial Seminar
Examination of personal and institutional aspects of interracial relationships. Emphasis is on participative exploration through the use of controlled observations, simulations, role playing, and similar techniques.

SOC 307: 3 s.h.
Social Research I: Research Design & Data Collection
An introduction to the logic and techniques of the social research process. Special attention is given to construction of questions, mailed questionnaires, and interviewing techniques. Prereq: SOC 101.

SOC 308: 3 s.h.
Social Research II: Analysis, Interpretation, & Applications
Techniques and procedures for processing social science data. Ability to develop and evaluate research reports and to judge how findings may be applied to improve social work practices are primary goals of the course. Previous training in statistics strongly recommended.

SOC 321: 3 s.h.
Futuristic Societies
An investigation of the projected technological and social innovations. Special attention is given to the construction of scenarios and social impact assessment.

SOC 322: 3 s.h.
Sociology of Aging
Analyzes the influence of social interaction upon the process, stages, and problems of aging, particularly of older age. Student-conducted oral history is utilized not only as a catalyst for intergenerational understanding and respect, but also as a therapeutic social work technique designed to enhance the self-image of older people by having them look back over their personal histories and through that process help them to meet the human need to attain a self-appreciation of the validity and significance of their lives. Dual listed with 522.

SOC 340: 3 s.h.
Documentary Photography
Explores social relations with the camera. Examines the use of photographs as tools of inquiry, documentation, and data for social analysis. Studies problems related to cultural features affecting visual perception and reportage.

SOC 350: 1-6 s.h.
Selected Topics Seminar
Review of a specialty area in anthropology, sociology or the study of a problem from an interdisciplinary position. Prereq: upper division standing and permission of instructor. May be taken for one through six credits.

SOC 410: 3 s.h.
Sociological Theory
Examines the classic and contemporary sociological theories, including the functionalist, conflict, and interactionist perspectives. Prereq: SOC 101, one other course in Sociology.

SOC 415: 3 s.h.
American Values in Conflict
Analyzes American values and values conflicts from a sociological perspective, placing such values and conflicts within a context of ideological orientation,ethnic/racial and social class diversity, group interaction, socio-cultural change, and societal policy.

SOC 430: 3 s.h.
Sociology of Deviance
An introduction to sociological theories of deviance and the new perspectives in criminology. Explores community and social bases of juvenile delinquency and crime. Dual listed with 530.

SOC 441: 6-15 s.h.
Organizational Internship
Provides experience in the regular activities of a business, government agency, or social service organization. Students prepare an analysis of the organization. May be taken from six through fifteen credits. Prereq: permission of instructor; SOC 301 strongly recommended.

SOC 497: 1-3 s.h.
Independent Study
May be taken for one, two or three credits at one time.

Social Work

SWK 101: 3 s.h.
Human Services
Introduction to the various professional roles, delivery systems, and agencies in human services. Emergent issues, needs, and trends affecting both public and private sectors will be reviewed.

SWK 201: 3 s.h.
African-Americans: An Inclusive View
Provides an opportunity for students to gain an awareness and understanding of the important contributions to society made throughout history by persons of color.

SWK 241: 3 s.h.
Introduction to Social Work
Analysis of welfare activities as a social movement and of the dominant characteristics of the social welfare institution in America. Attention is given to changing ideologies and to the professionalization of social work practice. Prereq: SOC 101; SOC 121 desirable.

SWK 257: 1 s.h.
Social Work Program Orientation
Acquaints students with the demands of professions in social work education. Examines expected educational outcomes of the social work program in relationship to the required curriculum designed to prepare social work generalists for the beginning social work practice.

SWK 258: 1 s.h.
Social Worker's Professional Responsibilities
Acquaints students with the organization of the profession of social work, ethics of the profession as expressed by the National Association of Social Workers, established standards of practice, and public policy statements and objectives.

SWK 259: 1 s.h.
Current Professional Issues in Social Work
Acquaints the student with the major current issues that affect the delivery of social services to vulnerable populations.

SWK 300: 3 s.h.
Human Behavior and the Social Environment
Focuses upon selected and current cultural, sociological, economic, and biological factors that have an impact on the growth and development of the individual organism. Examines the interrelationship of social, cultural, subcultural small groups, and situational factors that influence social development.

SWK 308: 3 s.h.
Evaluation Research
A systematic approach to assessing community social needs and evaluating social work programs and practice outcomes.

SWK 315: 3 s.h.
Evolution of Social Welfare in America
Analyzes the socio-economic experience of America's "Have Nots," ideological views of misfortune, social welfare policy and politics, and the evolution of social work.

SWK 350: 3 s.h.
Social Work Methods: Small Groups
Examines methods of facilitating group development and group interaction that enhances attempts to solve problems faced by the group and individual members of the group. Prereq: SWK 200 and 241.

SWK 351: 3 s.h.
Social Work Methods: Organizations
Examines social work methods of assessing organizations to identify needs, establish goals for change, and enable the organization to change so as to benefit the individuals, families, and groups that are impacted by it. Prereq: SWK 200 and 241.

SWK 352: 3 s.h.
Social Work Methods: Families
A basic orientation to social work methods used to assist families to achieve their own goals. A systems approach to analyzing and assisting families is emphasized. Prereq: SWK 200 and 241 or permission of instructor. Dual listed with 552.

SWK 353: 3 s.h.
Social Work Methods: Individuals
Examines methods of assisting individuals by employing social work problem-solving strategies designed to enhance social functioning and relieve stress created by adverse social conditions. Prereq: SOC 121 and SWK 241.

SWK 354: 3 s.h.
Chemical Dependency Treatment
Prepares students for entry-level positions in the chemical dependency field. Analyzes global assessment strategy for differential diagnosis, as well as beginning intervention techniques with the chemically dependent. Prereq: junior standing or documentation of work in a chemical dependency field. Dual listed with 554.

SWK 452: 12 s.h.
Social Work Field Placement
Provides on-the-job study and skill training in a recognized social service agency providing services to various consumer groups. Designed to provide for the application of theory to helping processes with persons in need.

SWK 453: 3 s.h.
Senior Seminar
Designed to prepare the graduating social worker to participate actively in the process of supervision used by professional social workers. Students will actively participate in a helping relationship during the semester.

SWK 454: 3 s.h.
Employment Counseling
Introduction to the field of employment services. Examines techniques involved in assessing individual skills and job requirements, as well as, sources of manpower information and forecasting. Covers theories of job selection and career development. Attention is given to the special problems of individuals undergoing retraining or rehabilitation, physically handicapped, and those having limited skills potential.

SWK 457: 3 s.h.
International Social Work
Provides an international perspective for examining the values, concepts, and practices of the social work profession. Introduces knowledge of the cultural, social, economic, and political forces that constitute international communities out of which social problems emerge and from which must be drawn resources for providing social services and solving problems.

SWK 497: 3 s.h.
Independent Study

SPECIAL EDUCATION

Professor Straub, chairperson
Associate Professor Sexauer
Assistant Professors Floyd, Lucero

The special education program at Mansfield University trains students to work with exceptional individuals through prescriptive teaching and practicum courses. Students who complete the special education program at Mansfield receive a Bachelor of Science in Education degree and a Pennsylvania Instructional I teaching certificate. This comprehensive certificate allows students to teach children from kindergarten through 12th grade (K-12) who are mentally retarded, emotionally disturbed, autistic, physically handicapped, learning disabled and brain injured. This Pennsylvania certificate may be made permanent upon the completion of 24 post-baccalaureate credits, three years of satisfactory teaching in one's field of certification, and completion of an induction year program.

Students may elect dual certification in elementary education and special education through a cooperative program offered by both departments. Both certifications will be recorded on the student's transcript.

The Department offers students an opportunity to choose elective courses in Special Education depending on individual students' areas of interest.

Practicum experiences in the local schools are required throughout the four undergraduate years. The student teaching program offers two different training experiences during the senior year. Students then demonstrate diagnostic and prescriptive teaching skills by applying individual, small and large class teaching methods to maximize the educational development of or for each exceptional learner.

Prerequisites for Student Teaching

A student shall successfully complete all major required courses and attain a 2.5 QPA in the major (SPE 101, 201, 301, 302, 303, 330, 340, 345, 404, 430, 435, 440, 490, and one 3 credit major related elective; Professional Education core: ED/PSY 230, ED 301, ED 401, ELE 383, ELE 384, SPE 410). The junior participation course, SPE 303, must allow a 6 hour/week block of time to be in the public schools. SPE 345, ELE 383, and ELE 384 must be taken before SPE 303.

The department encourages all the special education majors to join the University student chapter of the Council for Exceptional Children (CEC), which has been chartered by the national CEC. The University CEC chapter offers students opportunities to work directly with exceptional persons on and off campus, receive professional newsletters, publications and information, attend state, national and international conferences regarding exceptional children and develop leadership abilities.

COURSE DESCRIPTIONS

SPE 101: 3 s.h.
Exceptional Persons in Society
Examines the nature and needs of persons who are exceptional in emotional, social , physical ,and intellectual development, including the gifted and talented. Discussions will include career opportunities, social issues, current trends in Special Education, rehabilitation and related settings. Observation in Special Education settings will be available.

SPE 201: 3 s.h.
Mentally and Physically Disabled
Introduction to etiology, characteristics, education, management, and laws pertaining to children and adults with mental and physical disabled. Prereq:SPE 101 or permission of instructor.

SPE 301: 3 s.h.
Curriculum Development Adjustment
Examines curriculum development, adjustments, methods, and materials in Special Education. Studies IEP goals, school organization, grouping, planning unit instruction, teaching-learning process, evaluating pupil progress, and parent and other agency relationships. Prereq: SPE 201 or permission of instructor.

SPE 302: 3 s.h.
Assessment
Provides students with the skills necessary to diagnose and correct learning problems. Special attention is given to considerations related to the selection of appropriate formal tests (e.g., test bias). Selective diagnostic instruments are examined. Prereq: SPE 201 or permission of instructor.

SPE 303: 3 s.h.
Observation and Participation
Observation and participation in classroom setting. Emphasizing teaching/learning process, selecting, organizing, and presenting lessons and materials. Projects and demonstrations required.

SPE 304: 3 s.h.
Practical Arts for Exceptional Persons
Provides experience in test analysis and skill sequencing with emphasis of foods, woodworking, sewing, and related homemaking skills. Prereq: permission of instructor.

SPE 310: 3 s.h.
Communication Disorders
Introduction to the nature of specific speech, hearing and language disorders.

SPE 320: 3 s.h.
Gifted and Talented
Considers the characteristics of the gifted and talented. Introduces teaching procedures, program types, curriculum materials, and research.

SPE 321: 3 s.h.
Methods for the Gifted
Examines curriculum, methods, materials, and resources in the education of the gifted and talented. Includes analysis and demonstration of leading materials and strategies. Case studies, field visits, and teaching simulations are provided. Prereq: permission of instructor.

SPE 330: 3 s.h.
Cultural Diversity in Special Education
Studies the definitions, causes, characteristics, and education of children and youth from multicultural environments. Considers problems in social-psychological context with implications for programs of improvement and research.

SPE 340: 3 s.h.

Children in Need of Emotional Support
Examines the etiology of emotional disturbance with concentration on the characteristics, diagnostic procedures, therapy, educational strategies, instructional materials, and relevant research in relation to the education of emotionally disturbed children and youth. Includes observation and child study experience.

SPE 345: 3 s.h.
Behavior Management
Studies the implications of behavior theory as classroom teaching techniques. Conditioning of both academic skills and non-academic behaviors on an individual and group is stressed. Direct experience in modifying the behavior of exceptional children will be arranged.

SPE 360: 3 s.h.
Exceptional Children in Regular Classes
Develops an understanding of the rationale and procedures for mainstreaming exceptional children. Examines legal and philosophical rationales and current developments in mainstreaming are discussed. Major mainstreaming models will be studied, included problems and issues relevant to each technique.

SPE 375: 3 s.h.
Residential Facilities for the Disabled
Explores the many types of residential facilities, from institutions to independent living, used to house the disabled. The exploration will include philosophies, regulations, policies, and standards applied to facilities. Client programming, staff training, and supportive community agency services will be examined.

SPE 377: 3 s.h.
Adult Disabilities
Covers a broad range of disabilities in adulthood including physical, mental, and learning disabilities, including emotional problems. Emphasis will be on current program trends, issues, services, research on adult learning and adjustment, and implications for the helping professions.

SPE 391: 3 s.h.
The Exceptional Person in the United States and Europe—A Comparative Study
Designed to provide a comparative study of the United States and Europe of the care, treatment, and rehabilitation of exceptional persons from birth through adulthood. Study involves contact with families of exceptional individuals and professionals providing services on both continents.

SPE 400: 12 s.h.
Student Teaching
Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience under the supervision of master teachers in two different special classes in university established centers. Observations and conferences are scheduled by the departmental supervisor. Prereq: 2.5 QPA.

SPE 404: 3 s.h.
Early Childhood Disabilities
Examines the nature, needs, and education of young disabled children in infant-toddler, preschool, and primary programs. Emphasis will be on identification, multi-disciplinary educational planning, parent counseling, agencies, and services. Coverage will include special classes, resource rooms, and mainstream education including curriculum, methods, and materials plus the roles of other professionals. Observations and child studies are required. Prereq: permission of instructor.

SPE 410: 3 s.h.
Professional Seminar
Designed to develop and refine the professional competencies of the special education major prior to the field experience and/or accepting a professional position. Coverage includes general orientation to the profession, current issues, school organization and administration, techniques for seeking a professional position, the scope of the field of special education, and professional responsibilities.

SPE 430: 3 s.h.
Technology in Special Education
Introduction to and overview of the possibilities provided by microcomputers in assisting the exceptional learner. Provides initial skill and knowledge in using the microcomputer.

Exposure will be made to available resources, selection and evaluation of course ware, adaptive devices, curriculum, correlation, and classroom integration. Dual listed with 530.

SPE 435: 3 s.h.
Methods I: Teaching Children in Need of Academic Support
Provides organizational procedures, curriculum practices, methods and techniques used in educating mildly handicapped students K-12 in need of academic learning support. Emphasis is placed on direct teaching, collaborative practices, transitional planning, and curriculum adaptation. Prereq: SPE 101 and 301.

SPE 440: 3 s.h.
Methods II: Children in Need of Life Skills Support
Study of the nature and needs of school age children with moderate and severe handicapping conditions that include cognitive, health and /or physical impairments. Focus is on the educational and vocational needs of these children from a content base which includes identification, assessment, and remediation practices which are coupled with supportive measures, materials, and techniques. The use of instructional adaptations such as assistive technology will be stressed. Prereq: SPE 101 and 301. Dual listed with 508.

SPE 450: 12 s.h.
Internship
A supervised field experience in a professional setting serving the disabled.

SPE 476: 3 s.h.
Normalization and Community Relations
Explores the principles of normalization and their application, community attitudes towards the disabled, litigation and legislation, and strategies for public relations for the disabled. Course will emphasize the PASS/PASSING evaluation.

SPE 480-485: 1-6 s.h.
Special Education Workshops
Workshop/seminars focusing on contemporary trends, topics, and problems in the fields of special education. May be taken for one through six credits.

SPE 490: 3 s.h.
Learning Disabilities
Introduction to the definition, identification, etiology, and epidemiology of learning disabilities with a particular emphasis on methods of differential diagnosis and educational procedure. Remediation strategies, classroom management, and research will be studied.

SPE 497: 1-3 s.h.
Independent Study

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FACULTY

Abrey, Joan E (1993). M.S.N., SUNY-Binghamton, 1980. Clinical Instructor of Nursing.

Achey, LesErick B (1970). B.A., Lebanon Valley College, 1969; M.S., Drexel University, 1971. Assistant Professor. Catalog Librarian.

Ambrosio, Antonio (1988). B.S.,B.S.E., State University ofCampinas, 1972; M.S., Ibid., 1975; Ph.D., University of Notre.Dame, 1982. Associate Professor of Physics.

Amchin, Robert (1992). B.M. New England Conservatory of Music, 1981; M.M., Ibid., 1985; Ph.D., University of Michigan, 1995. Assistant Professor of Music Education.

Barton, Bruce (1993). B.S., Moorehead State University, 1980; M.A., University of Nebraska-Lincoln, 1982; Ph.D. University of Denver, 1989. Assistant Professor of English. Director of Composition. Director, Writing Across the Curriculum. Director, Writing Center.

Baylor-Ayewoh, Tondelaya K (1978). B.A., West Virginia State College, 1974; M.A., University of West Virginia, 1975; Ph.D., Pennsylvania State University, 1989. Professor. Counselor, Department of Academic & Human Development.

Biblehimer, Helen L.(1995). B.S.N., Pennsylvania State University, 1986; M.S., Ibid., 1989, Ph.D., Ibid., 1994. Associate Professor of Nursing.

Bickham, Stephen H (1970). B.A., University of Dayton, 1964; M.A., Southern Illinois University, 1965; Ph.D., Ibid., 1970. Professor of Philosophy. Chairperson, Department of Philosophy and Liberal Studies.

Biddison, Larry (1969). B.A., Texas A&I University, 1958; M.A., Louisiana State University, 1963; Ph.D., Ibid., 1969. Professor of English. Director, Canadian Studies.

Blais, Ellen (1968). B.A., Indiana University, 1966; M.A., University of Chicago, 1967; Ph.D. SUNY-Binghamton, 1978. Professor of English.

Blanco, Flor (1988). B.A., City University of New York, 1972; M.A., Ibid., 1974; Ph.D., University of Connecticut, 1986. Associate Professor of Foreign Language - Spanish.

Borsheim, David J (1973). B.A., College of St. Thomas, 1968; M.A., Ibid., 1970; M.M., University of Cincinnati-Conservatory of Music, 1973. Associate Professor - Horn.

Boston, Nancy J (1989). B.M., Lawrence University, 1973; M.M., Peabody Conservatory of Music, 1975; D.M.A., Ibid., 1984. Associate Professor - Piano.

Brennan, Adam (1995). B.A. Western Illinois University, 1986; M.A., Ibid., 1989. Assistant Professor. Director of Bands/Percussion.

Brown, Edward E (1971). B.M., Shenandoah Conservatory of Music, 1958; M.M., Converse College, 1964. Professor - Theory, Piano.

Brown, Stephen D (1974). B.A., Eastern Illinois University, 1970; M.S., Ibid., 1972. Associate Professor of Human Development and Family Studies.

Brucklacher, Barry (1989). B.S.E., Mansfield State College, 1970; M.Ed., Ibid., 1981; Ph.D. Pennsylvania State University, 1992. Associate Professor of Education.

Buchta, Dawn (1994). M.S.N., Syracuse University, 1994. Clinical Instructor of Nursing.

Bylaska-Davies, Paula (1994). M.S., SUNY, 1990.Instructor of Nursing.

Carpenter, Bruce E (1987). B.S., Lycoming College, 1974; M.A., University of Connecticut, 1975; Ph.D., University of Connecticut, 1990. Associate Professor of Economics.

Carrish, Sharon A (1993). B.S., Bowling Green State University, 1971; M.A., Framingham State College, 1984; M.A., Bridgewater State College, 1988; Ph.D., Boston College, 1992. Assistant Professor of Communications and Theatre.

Carter, Harold R (1990). B.S. Central State College, 1956; M.S., Miami University, Ohio, 1963; Ph.D., Union Institute, 1976. Associate Professor of Art. Chairperson, Art Department.

Carter-Onyirimba, Denise (1988). B.S., Mansfield University. Instructor. Assistant Director, Academic Advising Director, Minority Mentoring. Department of Academic & Human Development.

Chabala, William (1976). B.S., Kutztown State College, 1971; M.Ed., Kutztown State College, 1976. Associate Professor. Coordinator, Counseling Services. Chairperson, Department of Academic & Human Development.

Chester, Michael J (1993). B.S., University of Delaware, 1985; Ph.D., University of Pennsylvania, 1991. Assistant Professor of Physics.

Clark, Bernard K (1984). B.A., Oxford University, 1959; M.A., Ibid., 1964; M.A., Simon Fraser University, 1968. Associate Professor of Foreign Languages - French. Chairperson, Department of Foreign Languages.

Cleland, Craig J (1981). B.S., Millersville State College, 1975; M.Ed., Shippensburg State College, 1978; Ph.D., University of Maryland, 1980. Professor of Education.

Cohen, Pablo (1993). B.M., Buenos Aires Conservatory, 1985; M.M., Temple University, 1989. Instructor - Guitar.

Covey, Staci (1995). M.S.N., SUNY-Binghamton, 1990. Clinical Instructor of Nursing.

Crum, Michael (1984). B.S., Southeast Missouri State University, 1976; M.F.A., University of Southern Mississippi, 1984. Assistant Professor of Communications and Theatre. Director, Technical Theatre.

Cusano, Anelle (1990). B.S.W., Marywood College, 1980; M.S.W., Marywood Graduate School of Social Work, 1981. Assistant Professor of Social Work.

D'Ortona, Catherine M (1994). B.S., Loyola College, 1989; M.A., University of Virginia, 1992; Ph.D., Ibid., 1994. Assistant Professor of Mathematics.

Dalmolen, Albert (1987). B.A., Brown University, 1967; M.A., The American University, 1969; Ph.D., Ibid., 1972. Associate Professor of Political Science.

Daniels, Kay (1994). B.S.N., Elmira College, 1995. Clinical Instructor of Nursing.

Darby, David J (1972). B.S., Mansfield State College, 1965; M.S., Pennsylvania State University, 1970; Ph.D., Ibid., 1973, Associate Professor of Geography.

Davis, Scott A (1988). B.S., Eastern College, 1977; Ph.D., University of Virginia, 1982. Assistant Professor of Chemistry.

DePumpo, Lester J (1993). B.S.ED., Wilkes University, 1971; M.S.Ed., Elmira College, 1976; M.S., Syracuse University, 1986. Assistant Professor of Nursing.

Dettwiler, Peggy D (1990). B.S., University of Wisconsin-Platteville, 1970; B.M., University of Wisconsin-Madison, 1982; M.M., Ibid., 1980; M.M., University of Texas-San Antonio, 1985; D.M.A., Eastman School of Music, 1991. Associate Professor of Music - Choral Conducting.

Dodson, Russell L (1982). B.S.E., Wayne State University, 1972; M.S., Michigan State University, 1974; Ph.D., Ibid, 1985. Professor of Geography. Chairperson, Department of Geography and Geology.

Eidenier, Elizabeth (1978). B.M., Florida State University, 1971; M.M., Florida State University, 1974.

Elsasser, Thomas (1982). B.A., Norwich University, 1969; M.A., Fairleigh Dickinson University, 1978. Instructor. Assistant Director, Academic Advising. Director, Athletic Mentoring. Department of Academic & Human Development.

Engel, Wellington C (1969). B.S., Kansas State University, 1963; M.S., University of Kansas, 1969. Associate Professor of Mathematics.

Evans, Wayne (1981). B.S., Lock Haven State College, 1977; M.Ed., Pennsylvania State University, 1980. Associate Professor of Health, Physical Education & Recreation.

Feil, Richard N (1968). B.A., Loyola University, 1961; M.A., Catholic University of America, 1963; Ph.D., Ibid., 1968. Professor of Biology.

Felt, Pam (1995). B.S.N., Alfred University, 1992. Clinical Instructor of Nursing.

Fernsler, Thomas J (1992). B.S. Shippensburg State College, 1975; M.Ed., Pennsylvania State College, 1981; D.Ed., Ibid., 1983. Assistant Professor of Education.

Flesch, David C (1977). B.S., University of Wisconsin-Platteville, 1967; Ph.D., Iowa State University, 1977. Professor of Biology. Chairperson, Biology Department.

Floyd, Janis (1995). B.A., Wake Forest University, 1975; M.Ed., East Carolina University, 1979; M.A., Appalachian State University, 1983; Ed.D., Virginia Polytechnic and State University, 1995. Assistant Professor of Special Education.

Fuller, Janet A (1980). B.S., Mansfield State College, 1973; M.Ed., Ibid., 1976; Ed.D., Pennsylvania State University, 1989. Associate Professor of Education.

Funmaker, Walter W (1990). A.A., El Camino College, 1964; B.A., California State University-Los Angeles, 1967; M.A., University of Minnesota, 1974; Ph.D., Ibid., 1986. Associate Professor of Anthropology.

Gaballa, Mahmoud A (1991). B.A., M.A., Alexandria University, 1970; M.B.A., Tarleton State University, 1980; M.P.A., New York University, 1984; Ph.D., Ibid., 1990. Assistant Professor of Management.

Galloway, H Michael (1980). B.M.E., Baldwin-Wallace College, 1966; M.M., New England Conservatory, 1968; D.M.A., Hartt College, 1986. Professor of Music - Trumpet, Jazz.

Ganong, Barry R (1992). B.S., Oral Roberts University, 1977; Ph.D., University of Wisconsin-Madison, 1982. Assistant Professor of Chemistry.

Garay, Marta (1990). B.A., Universidad de Buenos Aires, 1961; M.A., University of Colorado, 1974; Ph.D., Ibid., 1978. Professor of Foreign Language - Spanish.

Garrett, Michele P (1993). B.A., Lebanon Valley College, 1981; M.S.N., Villanova College, 1989. Assistant Professor of Nursing.

Garrison, Frances L. (1985). B.S., James Madison University, 1982; M.L.S., George Peabody College for Teachers of Vanderbilt University, 1985; M.S.Ed., Elmira College, 1990. Assistant Professor. Education Librarian.

George, Arnold (1968). B.S., University of Massachusetts, 1964; Ph.D., Ibid., 1969. Professor of Chemistry. Chairperson, Chemistry & Physics Department.

Gertzman, Jay (1968). B.A., University of Pennsylvania, 1961; M.A., Columbia University, 1963; Ph.D., University of Pennsylvania, 1972. Professor of English.

Ghods, Abe (1983). B.S., Youngstown State University, 1976; M.B.A., Ibid, 1978. Assistant Professor of Marketing.

Glimm, James (1968). B.A., The College of the Holy Cross, 1964; Ph.D., University of Texas, 1968. Professor of English.

Goff, Ralph C (1969). B.S., St. Bonaventure University, 1963; Ph.D., Ibid., 1970 Associate Professor of Biology.

Grace, Joel E (1969). B.A., Franklin & Marshall, 1961; M.A., University of Waterloo, 1964; Ph.D., Ibid., 1966; Post Doctoral Fellow, University of Western Ontario, 1966-68. Professor of Psychology.

Hamwi, Richard (1995). B.A., Queens College, City University of New York, 1970: M.A., University of New Mexico, 1973; M.F.A., University of California, 1974; Ph.D., Pennsylvania State University, 1978. Associate Professor of Art.

Harris, Andrea (1995). B.A., University of Vermont, 1984; M.A., SUNY-Buffalo, 1987; Ph.D. Ibid., 1992. Assistant Professor of English. Co-Director, Women's Studies.

Havalchak, Andrew G (1980). B.S., Pennsylvania State University, 1972; M.B.A., Syracuse University, 1975; CPA. Assistant Professor of Accounting.

Heck, Richard A (1970). B.A., Westminister College, 1962; M.S., Ibid, 1964; M.Ed., University of Pittsburgh, 1966; Specialist Diploma, Ibid., 1967; Ed.D., University of Miami, 1971. Professor of Education.

Hensley, Stephen (1995). B.S., Eastern Kentucky University, 1982; Ph.D., Wright State University, 1990. Assistant Professor of Biology.

Hindman, Kathleen B (1967). B.A., Valparaiso University, 1965; M.A., Louisiana State University, 1967; Ph.D., Pennsylvania State University, 1980. Professor of English.

Holtman, Bradley A (1992). B.S., University of Wisconsin-Madison, 1976; M.A., Ibid., 1986. Assistant Professor of Foreign Languages - German.

Iovino, David A (1967). B.S., Duquesne University, 1965; M.A., Ibid., 1971. Assistant Professor of Foreign Languages - Spanish.

Irwin, S Robert (1970). B.S., Wake Forest University, 1963; M.Ed., University of Toledo, 1964. Assistant Professor of Health, Physical Education & Recreation.

Iseri, Howard (1991). B.A., California State University-Sacramento, 1984; M.A., Ibid., 1986; Ph.D., California State University-Davis, 1992. Assistant Professor Of Mathematics.

Kasambira, Daniel P (1973). B.S., Illinois Wesleyan University, 1964; M.S.W., University of Michigan, 1966; Ph.D., Case Western Reserve University, 1975. Professor of Social Work.

Keller, Peter A (1974). A.B., Franklin & Marshall, 1967; M.S., University of Miami, 1970, Ph.D., Ibid., 1972. Professor of Psychology. Chairperson, Psychology Department.

Kim, Earl Youngsuck (1988). B.M., Seoul National University, Seoul, Korea, 1978; M.M., New England Conservatory of Music, 1983; D.M.A., University of Miami, 1987. Associate Professor of Music - Voice.

King, Hobart M (1994). B.S.E., California State University, 1975; M.S., West Virginia University, 1978; Ph.D., Ibid., 1982. Assistant Professor of Geology.

Kirby, John M (1992). B.S., Missouri Southern State College, 1974; M.S., Millersville State College, 1976; Ph.D., Virginia Polytechnic Institute and State College, 1981. Associate Professor of Biology.

Kollar, Francis J (1966). B.S. St. Vincent College, 1964; M.Ed., Millersville, 1971. Associate Professor. Director, Career Development & Placement Services.

Koloski, Bernard (1964). B.S., East Stroudsburg State College, 1959; M.A., University of Pennsylvania, 1964; Ph.D., University of Arizona, 1972. Professor of English.

Kozacko, Marilyn (1992). B.A., Syracuse University, 1960; M.S., Elmira College, 1991. Instructor of Chemistry.

Kozlowski, Sharon (1993). B.A., Albright College, 1974; M.S., SUNY-Binghamton, 1991. Instructor of Nursing.

Krantz, Clarence L (1976). B.S.E.E., Bucknell University, 1967; M.E.E., Cornell University, 1968. Associate Professor of Computer Science.

Krieger, Susan M (1978). B.A., University of New Hampshire, 1972; M.A., Trenton State College, 1974. Associate Professor. Counselor, Department of Academic Development.

Kutbay, Bonnie G (1990). B.A., University of Colorado, 1972; M.A., Ibid., 1976; M.A., Arizona State University, 1980; Ph.D., University of Toronto, 1991. Assistant Professor of Art History.

Kutty, Gopalan (1984). Bachelor of Commerce, University of Calicut, 1971; Masters of Commerce, Ibid., 1974; M.B.A., Katholieke Universiteit Leuven, 1981; Ph.D., Northeastern University, 1985. Professor of Finance.

Kyofski, Bonelyn L (1989). B.S., Mansfield State College, 1962; M.A., Pennsylvania State University, 1966; Ph.D., Ibid, 1976. Associate Professor of Education.

Laib, Susan G (1989). B.M., Eastman School of Music, 1980; M.M., University of Colorado, 1982. Instructor of Music - Double Reeds.

Lapps, A Vernon (1968). A.B., University of Michigan, 1954; M.A., Wayne State University,1965; Ph.D., Ohio University, 1973. Professor of Communications and Theatre. University Senate President.

Largey, Gale P (1970). B.A., St. Vincent College, 1966; M.A., SUNY-Buffalo, 1968; Ph.D., Ibid, 1972. Professor of Sociology.

Launius, Margaret H (1989). B.A., California State University-Pamona, 1981; M.A., California State University-Fullerton, 1983; Ph.D., Louisiana State University, 1988. Associate Professor of Psychology.

Leiboff, Michael D (1989). B.A., University of Arizona, 1966; M.A., University of Nebraska, 1967. Assistant Professor of Communication and Theatre. Chairperson, Department of Communication and Theatre.

Lienhard, Clarence W (1987). B.S., Lafayette College, 1982; M.S., Lehigh University, 1984; Ph.D., Ibid., 1988. Associate Professor of Mathematics. Chairperson, Department of Mathematics and Computer Information Sciences.

Liley, Floyd W (1983). A.B., Central Methodist College, 1970; B.S., Northeast Missouri State University, 1972; M.S., Central Missouri State University, 1975; Ed.S., Ibid., 1978; Ph.D., University of Southern Mississippi, 1981. Associate Professor of Criminal Justice Administration. Chairperson, Department of Criminal Justice Administration.

Loher, Brian T (1990). B.A., Indiana University, 1980; M.A., Michigan State University, 1984; Ph.D., Ibid., 1987. Associate Professor of Psychology.

Longoria, Andrew (1992). B.A., Linfield College, 1981; M.A., University of Oregon, 1989; Ph.D., Ibid., 1992. Assistant Professor of Communications and Theatre.

Loomis, Thomas H (1971). B.F.A., Wayne State University, 1966; M.A., Ibid., 1974. Assistant Professor of Art.

Lucero, Jesus R (1992). B.A., University of Arizona, 1976; M.Ed., Ibid., 1981; Ed.S., Ibid., 1989. Assistant Professor of Special Education.

Lukasz, Elena (1964). B.A., University of Chicago, 1959; M.A., Ibid.,1962. Associate Professor of History.

Lutz, Terry (1977). B.S., Bloomsburg State College, 1970; Radiologic Technology, U.S. Air Force, 1972. Director, Radiology Program.

Mabe, Ann (1980). B.S., Virginia Commonwealth University, 1971; M.S., Ibid., 1978; M.A., University of Virginia, 1978, Ph.D., Ibid., 1979. Associate Professor of Anthropology.

Maisner, N. Roger (1976). B.S., Eastern Michigan University, 1973; M.A., Michigan State University, 1976. Associate Professor of Health, Physical Education & Recreation.

Maris, Robert C (1988). B.S., Texas A&M University, 1975; M.S., University of Southern Mississippi, 1980; Ph.D., Old Dominion University, 1986. Associate Professor of Biology.

Materese, Michele (1993). B.S., LeMoyne College, 1980; B.S., SUNY-Binghamton, 1985; M.S., Ibid., 1992. Instructor of Nursing.

May, Keri Jo (1995). M.S., Syracuse University, 1995. Instructor of Nursing.

McEuen, Stephen P (1977). B.M., Northeast Missouri State University, 1974; B.M.E., Northeast State University, 1974; M.M., The Julliard School, 1976. Assistant Professor of Music - Low Brass.

McEwan, Mary (1993). B.S., Elmira College, 1989; M.S., SUNY-Binghamton, 1991. Instructor of Nursing.

McGuire, Jane (1994). B.S., Boston University, 1956; M.S., SUNY-Binghamton, 1983; Ph.D., Cornell University, 1993. Assistant Professor of Nursing.

McQuaid, Kathleen (1990). B.A., Temple University, 1975; M.A., Ibid., 1979; Ph.D., Ibid., 1990. Associate Professor of Political Science. Chairperson, Department of History and Political Science.

Meyer, Kenneth A (1972). B.A., SUNY-Oneonta, 1966; M.A., University of North Carolina-Chapel Hill, 1969; Ph.D., Ibid.,1972. Professor of Biology.

Miller, Laurance W (1977). B.A., Susquehanna University, 1961; M.S.W., University of Pittsburgh, 1964; D.Ed., Pennsylvania State University, 1985. Professor of Social Work. Chairperson, Department of Social Work, Anthropology & Sociology.

Mitchell, Mary Jane (1985). B.S., University of Utah, 1975; M.P.A., University of Texas-Austin, 1980; CPA. Associate Professor of Accounting.

Monaghan, John (1989). B.S., Duquesne University, 1957; M.M., Ibid., 1970. Assistant Professor of Music - Flute.

Mumma, Jacques D (1967). B.A., Franklin & Marshall, 1965; M.A., Pennsylvania State University, 1967. Associate Professor of Mathematics.

Murphy, Joseph M (1987). B.M.E., Bowling Green State University, 1982; M.M., Northwestern University, 1983; D.M.A., Ibid., 1994. Assistant Professor - Saxaphone. Chairperson, Department of Music.

Murphy, Thomas P (1995). B.A., Fordham University, 1968; M.A., Ohio State University, 1970; Ph.D., Ibid., 1975. Assistant Professor of English.

Murray, J Dennis (1978). B.A., Syracuse University, 1970; M.A., University of Rochester, 1974; Ph.D., Ibid., 1975. Professor of Psychology

Musselman, Kenneth (1970). Administrative Certificate, Bloomsburg State College, 1971; M.S., Bucknell University, 1974. Assistant Professor of Education.

Newman, Ira (1972). A.B., Columbia College, 1962; M.A., Columbia University, 1971; Ph.D., University of Connecticut, 1984. Professor of Philosophy.

Nolan, Alexandra K (1995). B.A., Washington & Jefferson University, 1974; M.A., University of Houston, 1992. Assistant Professor of Communications and Theatre.

O'Donnell, Jocelyn (1994). M.S.N., Syracuse University, 1992. Clinical Instructor of Nursing.

Older, Priscilla (1988). B.A., Case Western Reserve, 1961; M.L.S., University of Illinois, 1968; Ph.D., University of California, 1983. Associate Professor. Behavioral and Social Science Librarian.

Onofre, Bonnie (1995). M.S.N., Syracuse University, 1991. Clinical Instructor of Nursing.

Owens, Konrad (1966). B.A., Oberlin Conservatory, 1964; M.M., Michigan State University, 1966; B.S., Elmira College, 1982; D.M.A., Michigan State University, 1988. Professor of Music - Clarinet.

Paskvan, Raymond F (1968). B.A., Carleton College, 1960; M.A., University of Minnesota, 1963; Ph.D., Ibid., 1971. Associate Professor of History.

Pien, Shui-hsien (1970). B.A., National Taiwan Normal University, 1958; M.L.S., University of Pittsburgh, 1988; M.S.Ed., Elmira College, 1975. Associate Professor. Acquisitions and Serials Documents Librarian.

Pifer, Lynn (1991). B.A., University of Illinois, 1984; M.A., SUNY-Buffalo, 1987; Ph.D., Ibid., 1991. Assistant Professor of English. Co-Director, Women's Studies.

Plowcha, Charlene S (1978). B.S., Indiana University of Pennsylvania, 1968; M.Ed., Ibid., 1977; D.Ed., Pennsylvania State University, 1987. Professor of Education.

Putt, Robert (1967). B.S., SUNY-Geneseo, 1960; M.S., Ibid., 1965; D.Ed., Pennsylvania State University, 1977. Professor of Education. Chairperson, Department of Education.

Ramasamy, Shaker G (1984). B.Sc., Madras University, 1974; M.Sc., Ibid., 1976; Ph.D., Oklahoma State University, 1984. Professor of Chemistry.

Reigel, Corey W (1991). A.B., Ripon College, 1981, M.A., University of New Hampshire, 1983; Ph.D., Temple University, 1990. Assistant Professor of History.

Remy, Ronald E (1965). B.S., California University, 1958; M.A., West Virginia University, 1961. Associate Professor of Education.

Robarge, Mark (1981). B.S., SUNY-Albany, 1973; M.A., Ibid., 1974; Ph.D., Ibid., 1979. Associate Professor of Criminal Justice Administration.

Robinson-Slabey, Mary L (1972). B.S.E., Geneseo State College, 1964; M.Ed., SUNY-Buffalo, 1970; Ed.D., Ibid., 1972; M.S.Ed, Tech, Lehigh University, 1982. Professor of Computer Science.

Rudy, June (1968). B.S., Mansfield State College, 1960; M.Ed., Pennsylvania State University, 1971. Assistant Professor of Education.

Russell, David H (1971). B.S., Mansfield State College, 1963. Assistant Professor. Director, Act 101. Department of Academic & Human Development.

Ryan, Edward S (1975). A.B., Fordham College, 1966; M.P.A., City University of New York, 1968; M.A., Suny-Albany, 1975; Ph.D., Ibid., 1978. Professor of Criminal Justice Administration.

Sabol, Bernard S (1969). B.S., Pennsylvania State University, 1963; M.A., Allegheny College, 1969. Associate Professor of Health, Physical Education & Recreation. Chairperson, Health, Physical Education & Recreation.

Salter, Sterling (1972). B.A., Clark University, 1966; M.A., University of Utah, 1969. Associate Professor. Department of Academic & Human Development.

Sanders, Walter (1967). A.B., Washington University, 1957; M.S., University of Wisconsin, 1958. Professor of English. Chairperson, Department of English.

Sarch, Kenneth L (1995). B.M., Julliard School of Music, 1965; M.M., Ibid., 1966; D.M.A., Boston University, 1982. Associate Professor of Music - Orchestra,Upper Strings.

Savoye, Philippe (1991). B.S., University of California-Davis, 1985; M.S., Ibid., 1988; Ph.D., Ibid., 1991. Assistant Professor of Mathematics.

Schankman, Larry (1993). B.A., Grinnell College, 1979; B.A., University of California, 1982; M.L.S., University of Washington, 1991. Instructor, Library.

Schintzius, A Hugh (1972). Ed.B., University of Buffalo, 1966; M.Ed., West Chester University, 1972. Assistant Professor of Health, Physical Education & Recreation. Recreation Director.

Schuerman, Robert (1994). B.S., University of Illinois, 1968; M.S., Ibid., 1977; M.S., University of Wisconsin, 1983; Ph.D., Pennsylvania State University, 1991. Assistant Professor of Computer Science.

Seidel, Charles F (1967). B.A., Lycoming College, 1957; M.A., Temple University, 1959; Ph.D., University of Liverpool, England, 1962. Professor of Psychology.

Seigart, Denise (1993). B.S.N., Niagara University, 1980; M.S., SUNY-Binghamton, 1987. Assistant Professor of Nursing.

Serine, Enrico (1970). A.A., Keystone Junior College, 1965; B.S., Bloomsburg State College, 1967; M.A., Shippensburg State College, 1970; Ed.D., University of Arkansas, 1976. Professor. Director, Academic Advising. Director, Academic Opportunity Department of Academic & Human Development.

Sexauer, Celeste (1975). B.S.Ed., Edinboro State College, 1971; M.Ed., Ibid., 1973; E.Ed., Pennsylvania State University, 1989. Associate Professor of Special Education.

Shaw, A Henry (1966). B.S., Lock Have State College, 1959; M.S., Ithaca College, 1970; ABD Peabody/Vanderbilt, 1977. Associate Professor of Health, Physical Education & Recreation.

Shaw, Marylou (1967). B.S., Texas College of Arts & Industries, 1960; M.S., Ithaca College, 1972. Assistant Professor of Health, Physical Education & Recreation.

Sheehe, Janeen B (1993). B.S.Ed., Mansfield State College, 1969; M.S.Ed, Elmira College, 1978; B.S., Alfred University, 1981; M.S., Syracuse University, 1984; Widener University, ABD. Associate Professor of Nursing. Chairperson, Robert Packer Department of Health Sciences.

Sidler, Jack D (1967). B.S., Geneva College, 1961; Ph.D., SUNY-Buffalo, 1966. Professor of Chemistry.

Soderberg, Richard W (1980). B.S., University of Wisconsin-Madison, 1972; M.S., Auburn University, 1980; Ph.D., Ibid., 1983. Professor of Biology. Director of Fisheries.

Solan, David S (1986). B.S., West Virginia University, 1973; M.S., Pennsylvania State University, 1976; Ph.D., Texas A&M University, 1981. Associate Professor of Travel and Tourism.

Sornberger, Judith (1990). B.A., University of Nebraska, 1981; M.A., Ibid., 1982; Ph.D., Ibid., 1986. Associate Professor of English.

Stalker, Stephen T (1993). B.M. Manhattan School of Music, 1966; M.M., Ibid., 1970. Instructor of Music - Cello, Bass.

Sternick, John L (1992). B.S., Huron College, 1970; M.S., South Dakota State University, 1977; Ph.D., Marquette University, 1980. Associate Professor of Biology.

Straub, Ronald B (1975). A.B., Dartmouth College, 1969; M.Ed., University of Delaware, 1972; Ph.D., Pennsylvania State University, 1980. Professor of Special Education. Chairperson, Special Education.

Sullivan-Blum, Louise (1989). B.A., College of Wooster, 1982; M.F.A., University of Iowa Writer's Workshop, 1988. Associate Professor of English.

Teal, Jean-Anne (1991). B.M., Oberlin College, 1960; M.M., University of Maryland, 1988. Assistant Professor of Music - Voice.

Thorne, Kathryn F (1993). B.A., Ball State University, 1979; M.A., Queen's University-Kinston, 1984; Ph.D., Michigan State University, 1992. Assistant Professor of Geography.

Timko, Robert M (1990). A.B., Mount St Mary's College, 1970; M.A., University of Guelph, 1973; Ph.D., Ibid., 1995. Associate Professor of Philosophy. Associate Director, Canadian Studies.

Travis, Howard (1988). A.B., University of Michigan; M.A., Ibid., Ph.D., Ibid. Professor of Communications and Theatre.

Travis, Priscilla M (1988). A.B., Douglass College-Rutgers University; M.A., University of Michigan, 1964; Ph.D., Ibid., 1980. Associate Professor of Communications and Theatre. APSCUF President.

Uffelman, Larry (1969). B.A., Illinois Wesleyan University, 1960; M.A., University of Illinois, 1962; Ph.D., Kansas State University, 1969. Professor of English.

Ulrich, John (1991). B.A., University of Maryland, 1985; M.A., SUNY-Buffalo, 1988; Ph.D., Ibid., 1994. Assistant Professor ofEnglish. Director, Honors Program.

Van Duzer, Jean (1993). B.S., Alfred University, 1979; M.S., SUNY-Binghamton, 1984. Instructor of Nursing.

Vayansky, Michael E. (1966). B.S., California State College, 1963;M.A., Kent State University, 1965. Associate Professor of Physics.

Vore, Lois A B.A., Otterbein College, 1954; M.S., Ohio State University, 1988. Instructor of Biology.

Vosburgh, Larry (1983). A.A.S., Corning Community College, 1967; B.S., Ohio State University, 1970; Respiratory Therapy, University of Chicago, 1977. Director, Respiratory Therapy Program.

Walker, John R (1970). B.S., SUNY-Albany, 1962; M.S., Syracuse University, 1966; Ph.D., Ibid., 1970. Professor of Mathematics.

Walker, Joleen (1994). B.S.N., Elmira College, 1993. Clinical Instructor of Nursing.

Washington, Edward (1995). Ph.D., Boston University. Assistant Professor of English.

Welch, Paula F (1976). B.S., Cornell University, 1969; M.B.A., Syracuse University, 1980. Associate Professor of Marketing and Management. Chairperson, Department of Business and Economics.

Werner, Jean S (1989). B.S.E., Indiana University of Pennsylvania, 1965; M.A., Pennsylvania State University, 1967; Ph.D., Ibid., 1995. Assistant Professor of Mathematics.

Werner, Stanley E (1967). B.S.E., Millersville State College, 1962; M.A., Pennsylvania State University, 1965. Associate Professor of Mathematics.

Williams, Madelyn M (1987). B.A., Glassboro State College, 1975; M.A., Ibid., 1977; A.B.D., Pennsylvania State University, 1993. Assistant Professor of Communications and Theatre.

Wooley, Robert H (1971). B.S., University of Wisconsin, 1966; M.S., Ibid., 1967; Ph.D., University of North Carolina, 1977. Professor of Sociology.

Woolley, Sandra L (1990). B.A., University of Michigan, 1962; M.S., Elmira College, 1975; C.A.S., SUNY-Cortland, 1983; Ed.D., Syracuse University, 1990. Associate Professor of Education.

Wright, Kathy J (1992). B.S., Mansfield State College, 1982; M.S., Murray State University, 1985; Pennsylvania State University, ABD. Instructor of Nutrition and Dietetics.

Wright, Leroy M (1990). B.A., Mansfield State College, 1982; M.S., Murray State College, 1984; M.A., University of Denver, 1988; Ph.D., Ibid., 1995. Assistant Professor of Communications and Theatre. Director, Forensics.

Wunderlich, Charles E (1964). B.M., Eastman School of Music, 1957; M.M., University of Michigan, 1958; Ph.D., Ibid., 1961. Professor of Music - Music History and Literature.

Wunderlich, Joyce C (1965). B.M., Houghton College, 1949; M.S., Ithaca College, 1961; D.A., Carnegie-Mellon University, 1980. Professor of Music - Music Education.

Wydra, Dennis J (1969). B.S., Bloomsburg State College, 1965; M.Ed., Temple University, 1970; D.Ed., Ibid., 1975. Professor of Education.

Yacovissi, William A (1976). B.S., Towson State University, 1969; M.U.R.P., Morgan State University, 1974; M.A., Pennsylvania State University, 1982; Ph.D., SUNY-Binghamton, 1989. Professor of Economics.

Young, Thomas K (1980). B.A., University of Wisconsin, 1975; M.A., Southern Illinois University, 1977; Ph.D., Ibid., 1982. Professor of Philosophy.